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by R.A. Trevail, P.J. Pakvis, and S. Brown

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Contents

Introduction 2
Acknowledgements 2

I. Section Organization 3
1. Activities Petroleum Resources Lab 5

II. 1984 Activity Highlights 7

III. Leasing 11
1. Licences 11
2. Activity 11
A. Onshore – Southwestern Ontario 11
B. Offshore – Lake Erie 11
C. Hudson and James Bay Lowlands 12

IV. Geophysical And Geochemical Activity 13
1. Licences 13
2. Activity 13

V. Drilling 15
1. Licences 15
2. Permits 15
3. Activity 15

VI. Production 24
1. Licences 24
2. Cumulative Production 24
3. Oil Production 31
4. Gas Production 31
5. Sources of Production and Reservoir Data in Ontario 44

VII. Natural Gas Storage 46

VIII. Salt Cavern Storage 47

IX. References 49

Appendix I. Licenses Issued In 1984 50

Appendix II. Composite Stratigraphic Column 59

Appendix III. List of Publications and Maps 60

Appendix IV. Explanation Of Data Items And Abbreviations 71

Appendix V. Summary Of Wells Drilled In 1984 73

Appendix VI. Index of Available Oil and Gas Analyses from Wells Drilled in Ontario 178

TABLES

1. Discoveries in Southwestern Ontario, 1984. 8
2. Important Dry Tests in Southwestern Ontario, 1984. 10
3. Hectares Leased Onshore, 1980–1984. 11
4. Lake Erie Hectares under Disposition 1963–1984. 12
5. Geophysical and Geochemical Exploration Activity, 1980–1984. 13
6. Geophysical and Geochemical Exploration Methods, 1984. 14
7. Summary of Wells Drilled in 1984. 16
8. Lake Erie Drilling Statistics 1960 to 1984 17
9. Total Drilling Statistics 1955 – 1984. 20
10. Drilling Summary by Geological Age 1984. 23

11. Historical Oil Production 1863 – 1984. 25
12. Oil Prices D2S3 Quality, 1982–1984. 27
13. Historical Gas Production 1905 – 1984. 30
14. Lake Erie Gas Production 1960 to 1984. 32
15. Oil Production by Geological Age, 1979–1984. 34
16. Oil Production by Pool, 1984. 36
17. Natural Gas Production by Geological Age, 1979–1984. 39
18. Gas Production by Pool, 1984. 42
19. 1984 Gas Storage Summary Report. 46
20. Salt Cavern Storage. 47
I.1. Persons Licenced to Conduct Geophysical or Geochemical Exploration for Oil or Gas 1984. 50
I.2. Persons Licenced to Lease Oil or Gas Rights, 1984. 51
I.3. Owners of Licenced Machines for Boring, Drilling, Deepening or Plugging Wells, 1984. 54
I.4. Persons Licenced to Produce Oil or Gas, 1984. 56

FIGURES

1. Petroleum Resources Section Staff Organization, 1984. 3
2. Petroleum Resources Inspection Areas. 4
3. Drilling Activity, Southwestern Ontario, 1984. 9
4. Exploratory and Development Wells Drilled Annually in Lake Erie, 1960–1984. 18
5. Cumulative Exploratory and Development Wells Drilled in Lake Erie, 1960–1984. 18
6. Exploratory and Development Metres Drilled Annually in Lake Erie, 1960–1984. 19
7. Cumulative Exploratory and Development Metres Drilled in Lake Erie, 1960–1984. 19
8. Exploratory, Development, and Service Wells Drilled Annually in Ontario, 1955–1984. 21
9. Cumulative Exploratory, Development, and Service Wells Drilled in Ontario, 1955–1984. 21
10. Exploratory and Development Metres Drilled Annually in Ontario, 1955–1984. 22
11. Cumulative Exploratory, Development, and Service Metres Drilled in Ontario, 1955–1984. 22
12. Number of Producing Oil Wells and Average Oil Production/Well/Year, 1921–1984. 24
13. Annual and Cumulative Oil Production, 1863–1984. 27
14. COOP and NORP Values, 1982–1984. 28
15. COOP and SOOP Values, 1982–1984. 28
16. Number of Producing Gas Wells and Average Gas Production/Well/Year, 1921–1984. 29
17. Annual and Cumulative Gas Production 1906–1984. 29
18. Annual and Cumulative Gas Production from Lake Erie, 1960–1984. 32
19. Number of Producing Gas Wells and Average Gas Production/Well/Year, 1960–1984. 33

20. Oil Production by County, 1984. 38
21. Total Gas Production by Area, 1984. 41
22. Percentage Land Gas Production by County, 1984. 41
23. Composite Stratigraphic Column. 59
24. Key Map for O.G.S. Petroleum Resources P. Number Maps (1:250 000). 65
25. Key Map for O.G.S. Petroleum Resources P. Number Maps (1:100 000). 66
26. Key Map for (NTS Series) Well Location and Status Base Maps (Onshore – Southwestern Ontario) (1:30 000). 67
27. Key Map for Lake Erie Well Location and Status Base Maps (1:50 000). 68
28. Key Map for Lake Erie Isopach Maps (1:50 000). 69
29. Key Map for Lake Erie Structure Maps (1:50 000). 70

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Petroleum Resources Section, Ontario Ministry of Natural Resources, London.

Introduction

Information contained within this report has been compiled from records submitted to the Petroleum Resources Section by licensed operators in compliance with the Petroleum Resources Act, R.S.O. 1980. Unless otherwise stated, all statistics and information reported are for the 1984 calendar year. Publication of annual reports are delayed one year due to the confidential status of exploratory well data incorporated within this report.

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I. Section Organization

The Petroleum Resources Section of the Ministry of Natural Resources operates under the authority of the Petroleum Resources Act, R.S.O. 1980. The Section enforces the regulations made under the Act, namely Regulation 752 – Exploration, Drilling and Production. The Section also administers Regulation 633 – Exploratory Licences and Leases for Oil and Natural Gas North of the Fifty–First Parallel of Latitude and Regulation 634 – Exploratory Licences and Production Leases for Natural Gas in Lake Erie, both made under the Mining Act. The Section is responsible for all matters related to the disposition of Crown owned rights as well as the regulation of the exploration, development, and production phases of the petroleum industry. It provides operational, geological/engineering, inspection, core and drill cuttings samples storage and cataloguing services for the oil and gas industry together with laboratory, computer, and research facilities.

Administration and engineering offices were located at 1106 Dearness Drive, London, from January to September 1984. In October, 1984 these offices were moved to their present location at 659 Exeter Road, London, Ontario. Key staff within the Petroleum Resources Section at that time are shown in Figure 1. Geological offices and sample repository facilities were located at 458 Central Avenue, London, Ontario. Inspection staff operate from the various Regional and District offices throughout the Province as shown in Figure 2.

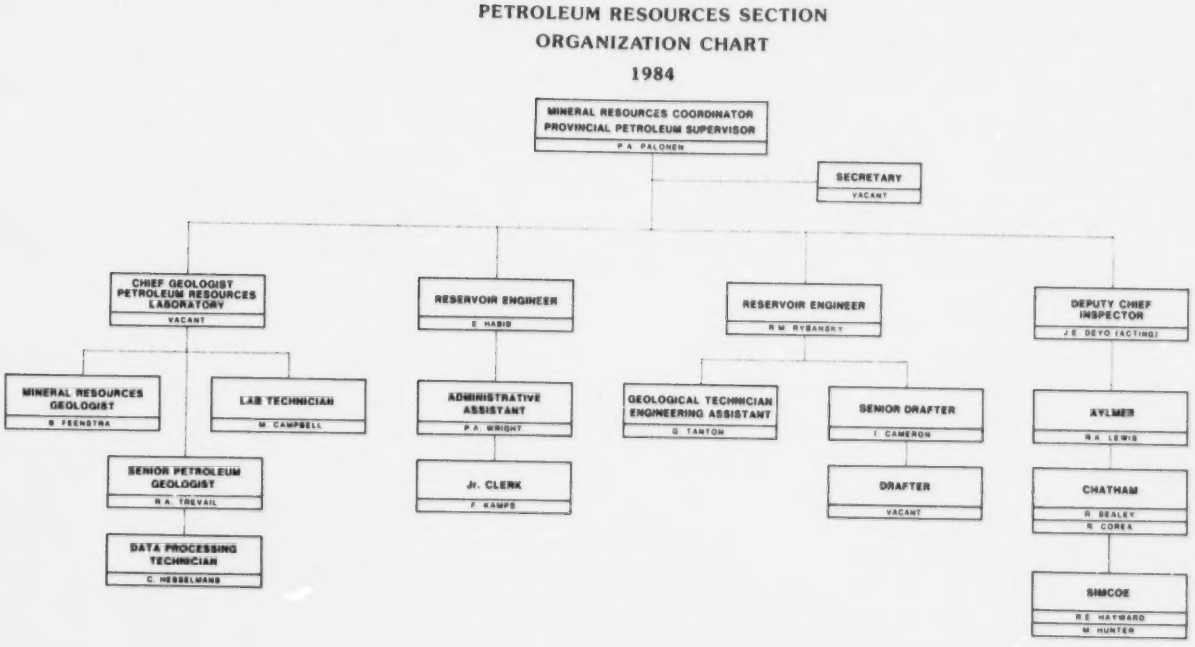


Figure 1. *Petroleum Resources Section Staff Organization, 1984.*

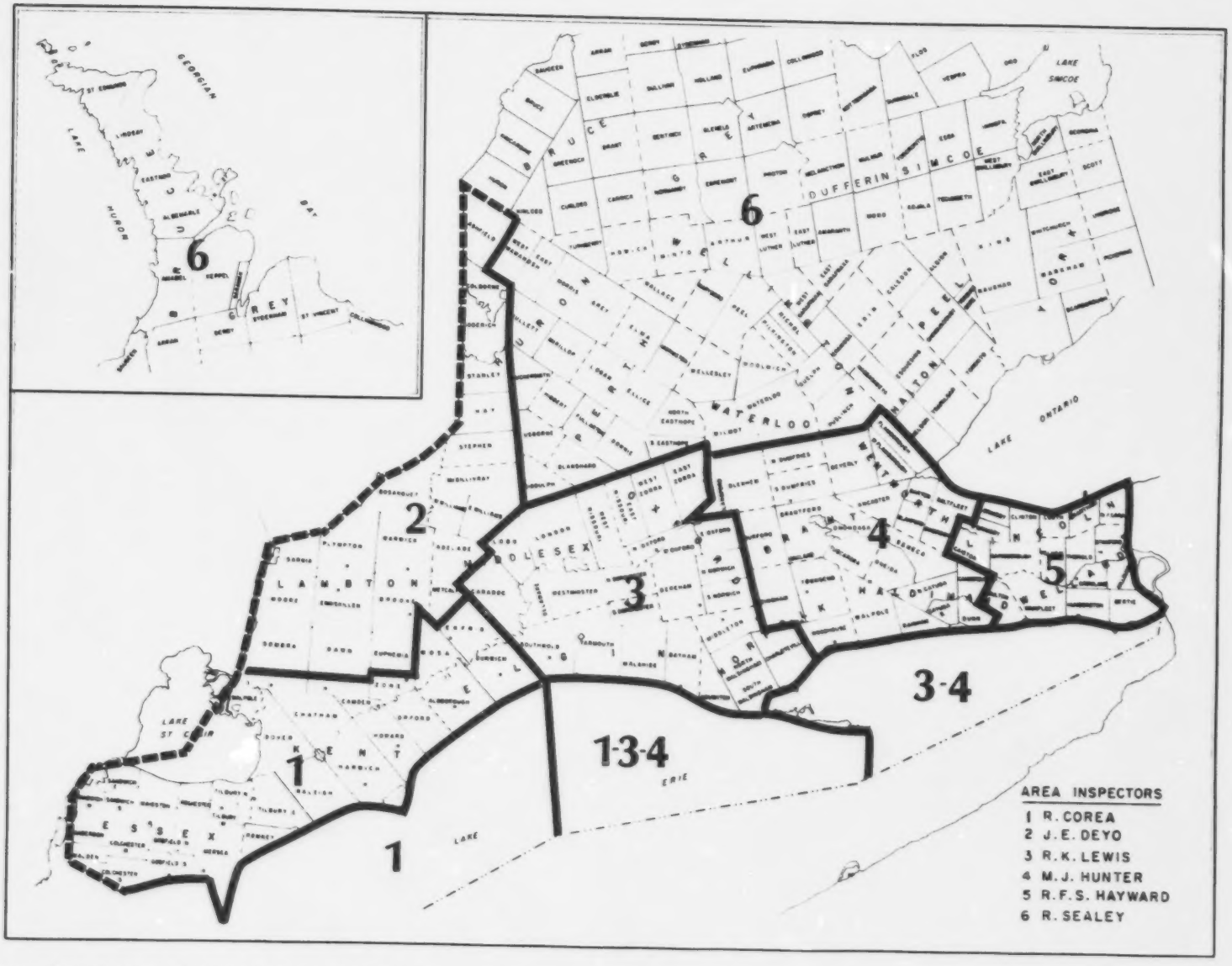


Figure 2. *Petroleum Resources Inspection Areas.*

1. ACTIVITIES PETROLEUM RESOURCES LAB

The principal function of the Petroleum Resources Laboratory is to catalogue and store all subsurface geological samples consisting of drill cuttings and cores obtained from the drilling of all petroleum exploration and development wells. Cuttings are sorted, washed, and catalogued when they are received from the field. The cores received at the Lab are slabbed using a diamond saw. All cores are catalogued and permanently stored for use by the public. Once samples and core have been prepared for examination, formation tops are determined by microscopic examination. Well cards showing well location, elevations of all formation tops and other technical information are completed. Regulations under the Petroleum Resources Act require that information on all exploratory wells remain confidential for a period of one year from completion of the well. Information on development wells is held confidential for at least 30 days after the completion date of the well and in any event shall not be released prior to release of information pertaining to the discovery well.

A detailed study of the Devonian strata of Ontario comprising Phase 3 of the evaluation of Ontario's convential hydrocarbon reserves and potential was completed. This project formed part of the Hydrocarbon Energy Resources Program (HERP) funded by the Ontario Ministry of Treasury and Economics under the Board of Industrial Leadership and Development (BILD). The project was originally subdivided into 7 phases, each with its own separate technical report. Results of the evaluation of the Cambrian and Ordovician were released in April (1984) through the Ontario Geological Survey as Open File Reports 5498 and 5499, along with 40 Preliminary Maps at a scale of 1:250 000 showing the regional structure and isopach contours of the Trenton Group, Black River Group, Shadow Lake Formation to Cambrian interval, and top of the Precambrian basement. In addition to this, detailed oil and gas pool maps at a 1:20 000 scale for 6 Cambrian and 10 Ordovician pools accompanied the reports. Both the Silurian sandstone and Silurian carbonate reports are in the various stages of preparation.

The annual status report entitled "Oil and Gas Developments in Eastern Canada in 1983" (Trevail and Parker 1984) was compiled and written for the American Association of Petroleum Geologists. The report summarizes activities and highlights of exploration and production trends in Ontario and Eastern Canada for 1983. This same report is scheduled for publication by the Canadian Society of Petroleum Geologists. Reprints are available at the Petroleum Resources Laboratory.

The 1984 Joint Annual Meeting of the Geological Association of Canada and the Mineralogical Association of Canada was held in London, Ontario, May 14–16. R.A. Trevail co–ordinated and chaired a Special Session on "The Geology and Resources of the Michigan Basin". The session focused on basin tectonics, Keweenawan rifting, diagenetic history of hydrocarbon bearing strata, hydrocarbon formations and entrapment, and oil shales. Application of COCORP seismic profiling and integration of gravity surveys with subsurface mapping provided new insight into the geologic history of the Michigan Basin. S.M.B. Bailey of Bailey Geological Services Limited presented the results of the Cambrian and Ordovician phases of the conventional hydrocarbon portion of HERP. The optimistic assessment of the as of yet undiscovered oil and gas resources of Ontario sparked a number of comments concerning the exploration possibilities available in the province, including remarks on the low cost of operations in Ontaro as compared to elsewhere in Canada.

Three technical papers were presented by R.A. Trevail during 1984. "Hydrocarbon Entrapment in the Trenton of Southern Ontario" was pre-

sented at the 1984 meeting of the Eastern Section of the American Association of Petroleum Geologists (AAPG) held in Pittsburgh, Pennsylvania in October. The second paper entitled "Conventional Oil and Gas Resources of Ontario" was presented at the Hydrocarbon Energy in Ontario Symposium featured at the Ontario Geological Survey Geoscience Research Seminar, 1984.

A program to evaluate remote sensing techniques, specifically airborne colour and thermal infrared imagery, as a potential hydrocarbon exploration tool, was conducted by R.A. Trevail and V.H. Singhroy from the Ontario Centre for Remote Sensing (OCRS). Funding was jointly provided by the Ministry of Natural Resources and the OCRS. The study area consisted of Dawn and Euphemia Townships in Lambton County and Zone and Camden Townships in Kent County. Interpretation of both colour and thermal infrared imagery revealed the presence of a number of small and subtle, moisture filled or dry lineaments associated with the Dawn and Electric Faults.

Preliminary results indicated that airborne infrared imagery has the potential for being a relatively rapid and inexpensive reconnaissance exploration tool in Ontario and may be used to target more detailed exploration techniques such as seismic and geochemical surveys. Results of this study were presented at the 23rd Annual Conference of the Ontario Petroleum Institute.

II. 1984 Activity Highlights

The major highlights of 1984 included the discovery of the Aldborough 3–8–16–XII Pool in Elgin County, the Oil Finders Group Silurian discovery Moore 2–22–II, and the continued successful development of the Hillman (Mersea 1–15–B) and Dover 7–5–V E Pools. A total of 200 wells (173 exploratory and development and 27 service) were drilled with an overall success rate of 47% in combined exploratory and development drilling. Total metreage amounted to 97,158 m. Table 1 summarizes significant discoveries in Ontario during the year and Figure 3 shows their locations. Table 2 summarizes important dry tests drilled in 1984.

E.P. Rowe Ltd., in conjunction with its partner Ram Petroleums Ltd., continued drilling follow–up wells in the vicinity of its 1983 discovery Rowe/ Ram #1 Dover 7–5–V E, 1.2 km north of the old Dover pool oil and gas discoveries of 1917. Two exploratory wells, Rowe/Ram #4 Dover 6–IV E and Rowe/Ram #6 Dover 1–11–V E, were both completed as oil producers in the Ordovician Black River Group.

The Consumers' Gas Company Ltd. and the Ontario Energy Corporation drilled 11 wells in 1984 as part of the 1983 $4 million joint–venture agreement to explore for oil and gas in Ontario. Two exploratory wells, Cons/OEC 33836 Aldborough 3–8–16–XII and Cons/OEC 33831 Aldborough 3–2–17–XIII, were completed as oil producers in the Devonian Dundee Formation. Oil Finders Group discovered an incipient reef in the Guelph Formation at the end of the summer. Initial results following completion and stimulation indicated a flow rate of greater than 28 10^3m^3 per day and a shut–in pressure of 6,227 kPa.

Sandstones of the Thorold and Grimsby Formations remain the prime target in Norfolk County. Seven exploratory wells were completed as relatively low–volume gas producers. Porosity and permeability pinch–outs provide the primary trapping mechanism for these small, yet economic, pools. Low drilling and completion costs associated with shallow depth (300–400 m) provide an attractive target for the small operator and investor.

Project planning, acquisition of necessary funding, and the seeking of favourable federal tax rulings for the gravity–assisted petroleum drainage project proposed by Devran Petroleum Ltd. (Trevail and Parker, 1984) continued in 1984. The first stage of shaft sinking was completed by the end of March 1985, with 2.7m diameter casing run to bedrock at 33 m and cemented in place.

Phase 3 (Devonian) of a 3–year study to evaluate the potential reserves of conventional gas and oil in Ontario was completed in 1984 (Bailey Geological Services Ltd. and R.O. Cochrane, 1985). Approximately 4.7% (323,107 m^3) of the estimated 6,808,000 m^3 of Devonian recoverable oil reserves remains to be produced by primary means. Remaining potential recoverable reserves in Devonian strata are estimated at 10.9 x 10^6m^3, of which 82.6% are assigned to offshore areas underlying Lakes Huron and Erie.

TABLE 1: DISCOVERIES IN SOUTHWESTERN ONTARIO, 1984.

Map No.	Well Name	Latitude Longitude	Completion Date	Total Depth (m)	Producing Formation	Status	Class
ELGIN							
1	Consumers' OEC 33836 Aldborough 8-16-XII	42°33'33" N 81°34'34" W	June 8	164.0	Dundee	OP	NPW
2	Consumers' OEC 33831 Aldborough 3-2-17-XIII	42°33'29" N 81°34'13" W	November 26	108.1	Dundee	OP	NPW
ESSEX							
3	Revalee #1 Rochester 1-20-V EBR	42°13'27" N 82°37'09" W	May 8	838.4	Trenton	OP	NPW
HALDIMAND							
4	Miorbi Moulton 1-4-II	42°54'46" N 79°30'06" W	April 26	237.7	Thorold-Grimsby	GP	NPW
KENT							
5	Rowe/Ram 4 Dover 6-IV	42°22'24" N 82°20'25" W	February 9	1,074.6	Black River	OP	NPW
6	Rowe/Ram 6 Dover 1-11-V E	42°24'27" W 82°19'30" W	July 9	1,165.0	Black River	OP	NPW
LAMBTON							
7	Forbes 3 Brooke 4-8-3-VIII	42°50'35" N 81°59'03" W	March 29	161.0	Dundee	OP	NPW
8	Ram 77 Brooke 24-X	42°52'25" N 81°04'36" W	June 13	142.1	Dundee	OP	NPW
9	Francisco 1 Enniskillen 7-30-IX	42°51'20" N 81°00'57" W	March 8	600.0	Guelph	OP	NPW
10	PPC 1 Euphemia 18-IV	42°39'48" N 81°57'37" W	June 26	500.7	A1 Carb	OP	NPW
11	Oil Finders Moore 2-22-II	42°47'18" N 81°24'10" W	August 22	729.3	Guelph	GP	NPW
NORFOLK							
12	Metalore 72 Charlotteville 4-11-A	42°42'09" N 80°21'09" W	July 26	394.9	Thorold-Grimsby	GP	NPW
13	Blazedale 1 Charlotteville 2-3-IX	42°46'47" N 80°29'09" W	May 2	392.6	Thorold-Grimsby	GP	NPW
14	Hemlock 9 Houghton 5-8-ENR	42°39'56" N 80°42'01" W	March 12	436.4	Thorold-Grimsby	GP	NPW
15	Beech Lane 1 Houghton 2-13-I	42°41'25" N 80°40'35" W	December 21	425.6	Thorold-Grimsby	GP	NPW
16	Poinsettia Middleton 7-26-III STR	42°48'01" N 80°34'55" W	April 23	408.3	Thorold-Grimsby	GP	NPW
17	Easter Lily Middleton 8-26-II STR	42°48'53" N 80°35'35" W	May 28	373.2	Thorold-Grimsby	GP	NPW
18	Red Hot Sally Middleton 7-27-II STR	42°49'02" N 80°35'19" W	October 5	374.0	Thorold-Grimsby	GP	NPW
19	F & M 7 N. Walsingham 4-18-VII	42°34'56" N 80°35'18" W	December 18	395.9	Thorold-Grimsby	GP	NPW

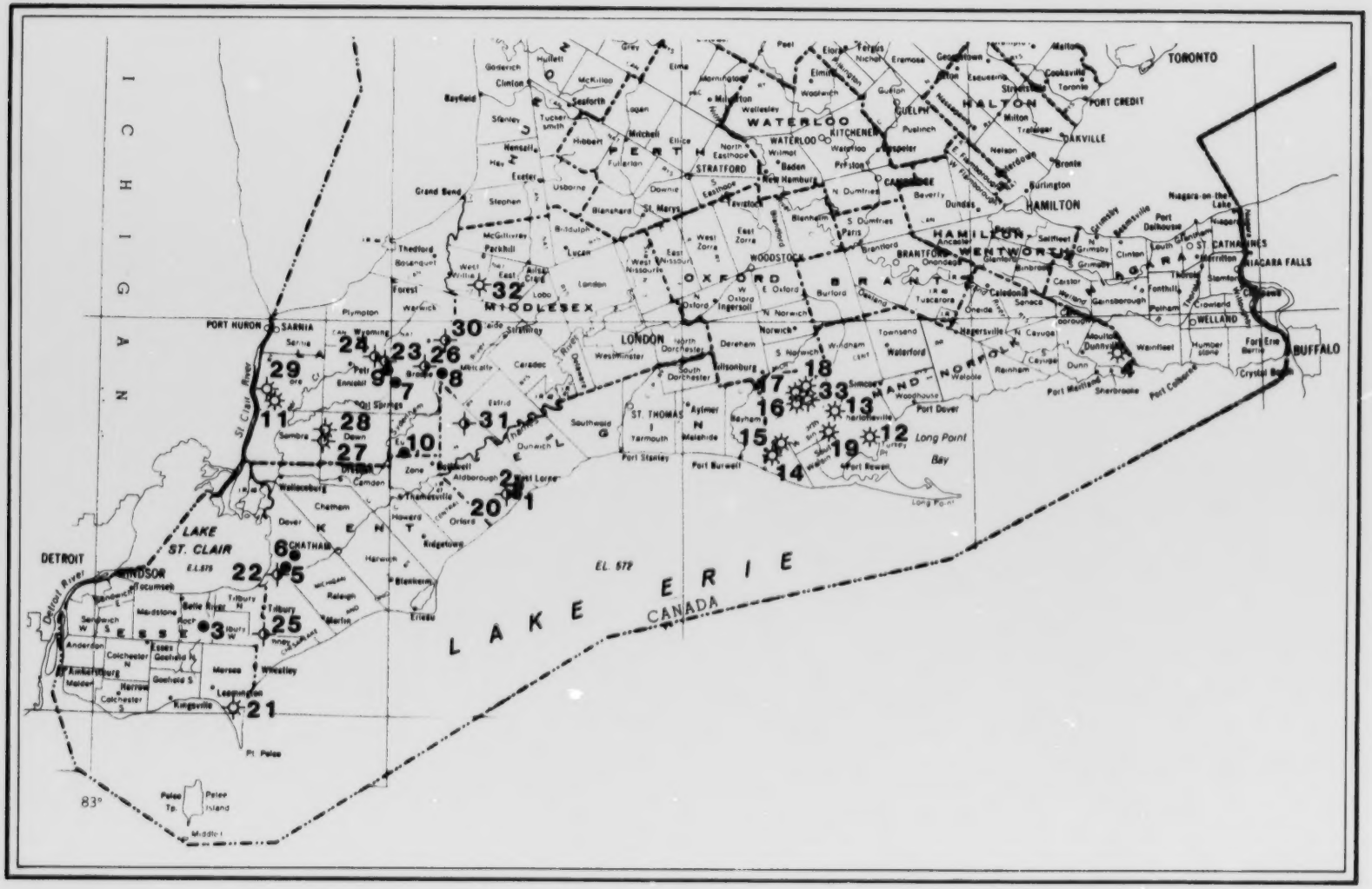


Figure 3. *Drilling Activity, Southwestern Ontario, 1984.*

TABLE 2: IMPORTANT DRY TESTS IN SOUTHWESTERN ONTARIO, 1984.

Map No.	Well Name	Latitude Longitude	Completion Date	Total Depth (m)	Formation Showing Oil or Gas	Status	Class
ELGIN							
20	Eagle et al 1 Aldborough 3-15-XIII	42°33'10" N 81°34'45" W	July 16	151.7	Dundee	OS	NPW
ESSEX							
21	G.E.L. 15 Mersea 1-16-A	42°01'48" N 82°31'45' W	October 4	902.2	Trenton	GS	NPW
KENT							
22	Francisco 2 Dover 3-1-IX E	42°21'18" N 82°22'39" W	June 6	1,123.2	Gull River	OS	NPW
23	Bailey 3 Howard 2-2-5 I	42°53'25" N 82°01'18" W	June 1	105.6	Dundee	OS	NPW
24	Consumers 13875 Lake Erie 348-N	41°53'31" N 82°02'32" W	July 21	586.7	Dundee	GS	NPW
25	Cons/OEC Tilbury E 7-24-VIII	42°12'02" N 82°25'04" W	January 7	1,108.2	Trenton	OS	NPW
LAMBTON							
26	Ram #78 Brooke 8-18-XI	42°52'57" N 81°52'40" W	August 29	599.5	Guelph	OS	NPW
27	Forbes 31 Dawn 3-22-I	42°41'44" N 82°14'00" W	October 31	599.6	Guelph	GS	NPW
28	Forbes 32 Dawn 4-25-I	42°42'33" N 82°13'56" W	November 7	610.8	Guelph	OS	NPW
29	Dow et al Moore 7-22-V	42°48'59" N 82°24'03" W	February 8	735.8	Guelph	GS	NPW
30	Smith Warwick 4-1-28-V SER	42°57'12" N 81°48'19" W	September 10	146.7	Dundee	OS	NPW
MIDDLESEX							
31	Strathburn Mosa 4-2-4-III	42°44'50" N 81°44'54" W	March 16	145.8	Dundee	OS	NPW
32	Protero W. Williams 2-14-XIV	43°05'56" N 81°40'26" W	April 6	587.5	Guelph	GS	NPW
NORFOLK							
33	Petunia Middleton 1-26-IV SER	42°47'46" N 80°34'38" W	July 26	388.4	Thorold-Grimsby	GS	NPW

III. Leasing

1. LICENCES

The number of licences to lease oil and gas rights in Ontario issued in 1984 increased to a total of 155 as compared with 120 in 1983, and 172 in 1982 (Appendix I, Table I.1)

2. ACTIVITY

A. Onshore – Southwestern Ontario

In 1984, 78,413.2 hectares were acquired on land, up 0.3% from the 78,194.3 hectares leased in 1983 (Table 3). The figures in Table 3 represent only new hectares leased on freehold lands, and therefore do not reflect the total number of hectares under lease and do not include assignments.

The greatest increase in leasing activity occurred in Kent County, where the total area leased was up nearly 220% over 1983. This increase is attributed to the continued success of the Trenton–Black River play and the discovery of the Devonian Aldborough 3–8–16–XII Pool.

Leasing activity also increased in Bruce, Durham, Essex, Haldimand, Middlesex, Norfolk, and Wellington Counties but decreased significantly in Huron and Lambton Counties (Table 3).

B. Offshore – Lake Erie

The Petroleum Resources Section, under Ontario Regulation 634 of the Mining Act, administers the disposition of Licences of Occupation and

TABLE 3: HECTARES LEASED ONSHORE, 1980–1984.

County	1980	1981	1982	1983	1984
Brant	13,451.0	4,192.5	388.5		
Bruce	314.5	3,920.6	1,018.2		485.6
Durham				54.2	60.7
Elgin	35,915.9	6,280.3	3,258.3	19,273.9	17,739.2
Essex	12,950.4	1,714.7	4,139.7	5,310.8	5,369.4
Grey	1,017.0	1,288.1		809.4	
Haldimand	1,681.9	1,064.3	235.5		260.6
Huron	2,296.7	3,352.8	5,739.5	12,101.7	1,999.3
Kent	10,169.2	10,191.2	13,696.8	7,738.0	24,649.3
Lambton	64,609.7	16,412.1	22,249.7	28,001.7	21,926.6
Lincoln	7,765.7	615.5	4.0	40.5	
Manitoulin Island	268.7		60.7	288.5	
Middlesex	11,492.1	5,655.5	1,418.0	2,251.6	3,313.8
Norfolk	5,301.5	10,892.1	3,976.8	1,660.8	2,107.9
Oxford	33,553.7	13,698.6	357.7	141.6	111.5
Perth	462.4	688.0			
Victoria		80.9			
St. Lawrence–Niagara				4.0	
Welland	763.6	72.0	183.7		389.3
Wellington			184.5	517.6	
Wentworth	288.5	314.4			
TOTAL	202,302.5	80,433.6	56,911.6	78,194.3	78,413.2

Production Leases in transactions involving Crown land in Lake Erie. Drilling is restricted to the portion of Lake Erie east of a line taken from Point Pelee, Ontario to Marble Head, Ohio. As well, production is limited to natural gas.

Table 4 shows the number of hectares on Lake Erie under disposition during 1963–1984. In 1984 766,823.9 hectares were held under Licences of Occupation and 301,229.3 hectares were held under Production Leases for a total of 1,068,053.2 hectares under disposition.

Rental payments to the Crown in 1984 were $484,852.93 for Licences of Occupation and $176,592.45 for Production Leases. The total, $664,445.38, represented a decrease of 12% from rent collected in 1983.

Royalty payments received by the Crown for the year amounted to $4,825,709.48 representing a 27% increase over the $3,811,414.84 collected in 1983.

Total revenue for all royalties and rent for the year was $5,490,154.86.

C. Hudson and James Bay Lowlands

Administration of licencing and leasing of oil and gas rights on Crown land in the Hudson and James Bay Lowlands is performed by the Petroleum Resources Section and personnel of Northern Region, Ministry of Natural Resources under Regulation 603, R.S.O. 1970. This statute regulates Licences of Occupation on Crown lands north of the fifty–first parallel of latitude.

The Ontario Energy Corporation still held licences in the lowlands in 1984 for the purpose of exploring for lignite and bituminous shale. No new licences or leases were issued.

TABLE 4: LAKE ERIE HECTARES UNDER DISPOSITION 1963-1984.

Year	Licences of Occupation	Production Leases	Total Hectares
1963	n/a	n/a	466,247.6
1964	n/a	n/a	n/a
1965	n/a	n/a	n/a
1966	n/a	n/a	259,493.1
1967	n/a	n/a	1,257,782.2
1968	n/a	n/a	1,257,631.3
1969	n/a	n/a	1,256,819.5
1970	n/a	n/a	828,671.8
1971	n/a	n/a	656,906.1
1972	594,437.6	62,236.3	656,673.9
1973	962,821.6	64,530.8	1,027,352.4
1974	1,011,015.2	71,206.1	1,082,221.3
1975	1,021,269.2	74,256.5	1,093,538.7
1976	1,019,282.2	74,256.5	1,093,538.7
1977	999,396.0	94,132.8	1,093,528.8
1978	961,746.0	157,274.3	1,119,020.3
1979	887,280.9	212,918.7	1,100,199.6
1980	889,578.0	215,002.0	1,104,580.0
1981	667,110.0	279,529.0	946,639.0
1982	843,068.0	301,109.0	1,144,177.0
1983	476,416.0	294,022.0	770,438.0
1984	766,823.9	301,229.3	1,068,053.2

IV. Geophysical And Geochemical Activity

1. LICENCES

Thirty-six licences to conduct geophysical or geochemical exploration for oil and natural gas in Ontario were issued in 1984 (Appendix I, Table I.2).

2. ACTIVITY

While overall geophysical and geochemical (hereafter referred to as geo-geo) exploration activity increased by 72% to 2,263.3 km from 642.2 km acquired in 1983 (Table 5). Elgin, Middlesex and Oxford Counties in addition to Lake Erie all experienced significant increases.

Geo-geo activity decreased in Kent (2.5%), and Lambton (21%) Counties. No geo-geo activity occured in Brant, Bruce, Haldimand, Huron, Perth or Welland Counties, nor on Manitoulin Island.

As shown in Table 6, of the 2263.3 km of geo-geo data acquired in 1984, seismic surveys conducted in Elgin, Essex, Kent, Lambton, Middlesex and Norfolk Counties and Lake Erie comprised 30.4% for a total of 688.8 km. Geochemical surveys carried out in Elgin, Essex, Kent, Lambton, Middlesex and Oxford counties contributed the other 69.6% (1574.5 km).

TABLE 5: GEOPHYSICAL AND GEOCHEMICAL EXPLORATION ACTIVITY, 1980-1984.

County	1980 Kilometres	1981 Kilometres	1982 Kilometres	1983 Kilometres	1984 Kilometres	Percent of total 1984
Brant			29.80			
Bruce	76.80					
Elgin	85.10	10.65		30.20	486.13	21.5
Essex	57.70	7.95	83.40		312.40	13.8
Haldimand			247.00			
Huron	190.60	75.00	34.00			
Kent	15.70	12.00	54.90	186.48	181.66	8.0
Lake Erie	1421.10		1013.40		372.03	16.4
Lambton	804.40	462.55	274.68	412.35	325.68	14.4
Manitoulin		10.00				
Middlesex	52.60	21.00	29.00	2.90	294.38	13.0
Norfolk				.50	1.00	.1
Oxford		18.70	8.00	10.00	290.00	12.8
Total	2704.00	617.85	1774.18	642.44	2263.28	100.00

TABLE 6: GEOPHYSICAL AND GEOCHEMICAL EXPLORATION METHODS, 1984.

Method	County	1984 Kilometres	Total	% of Total Kilometres
Geochemical	Elgin	396.00		
	Essex	256.90		
	Kent	107.70		
	Lambton	233.80		
	Middlesex	290.10		
	Oxford	290.00		
			1574.5	69.6
Seismic (geophysical & dynamite)	Elgin	90.13		
	Essex	55.50		
	Kent	73.96		
	Lake Erie	372.03		
	Lambton	91.88		
	Middlesex	4.28		
	Norfolk	1.00		
			688.78	30.4
TOTAL			2263.28	100.00

V. Drilling

1. LICENCES

Licences were issued to 66 owners of machines for boring, drilling, or plugging wells in 1984 (Appendix I, Table I.3).

2. PERMITS

A total of 205 drilling permits were issued in 1984.

3. ACTIVITY

Drilling activity in Ontario, both onshore and in Lake Erie, remained stable during 1984 with 200 exploratory and development wells drilled compared with 164 in 1983. Table 7 provides a summary of drilling activity for the year by classification, county, and township.

Onshore exploratory drilling activity increased 40% to 55 completions, compared with 33 in 1983, resulting in 9 oil producers, 10 gas producers, and 36 dry holes. Development drilling decreased 38% to 38 completions, compared with 61 in 1983, resulting in 17 oil producers, 11 gas producers, and 10 dry holes. In addition, 27 service wells were drilled consisting of 9 stratigraphic tests, 9 gas storage wells, 4 brine production wells, 2 water injection wells, 2 disposal wells, and 1 LPG storage well. Total metreage for all onshore wells in 1984 was 66,036.7

Lake Erie drilling activity consisted of 7 exploratory wells, an decrease of 56% over the 1983 figure of 16 exploratory wells, and 62 development wells, a increase of 11% from 55 drilled in 1983. Exploratory drilling resulted in 7 dry holes for a drilling success rate of 0%. Development drilling was 53% successful with 33 wells completed as gas producers and 29 dry holes. Total metreage for all Lake Erie wells in 1984 was 31,119.5 m.

A total of 1,664 wells had been drilled in Lake Erie by the end of 1984. Table 8 and Figures 4, 5, 6, and 7 show Lake Erie drilling statistics from 1960 to 1984 inclusive.

Relatively accurate drilling statistics are available for the period 1955 to 1984 (Table 9, Figures 8, 9, 10, and 11). During that time 2,709 exploratory, 3,469 development, and 740 service wells were drilled for a total of 6,918 wells. Total metreage amounted to 3,233,695 m with an average depth of 467 m.

Table 10 presents a summary of 1984 drilling by geological age along with corresponding success rates for exploratory (27% overall) and development (60% overall) drilling.

TABLE 7: SUMMARY OF WELLS DRILLED IN 1984.

County	Township	Exploratory						Development						Service			Total Wells	Total Metres
		Gas	Oil	Dry	Susp	Total Wells	Total Metres	Gas	Oil	Dry	Susp	Total Wells	Total Metres	Total Wells	Total Metres			
Bruce	Eastnor				1	1	484.7										1	484.7
Elgin	Aldborough		2	3	2	7	1023.7		3			3	398.8	1	182.8	Disp.	11	1605.3
	Dunwich			1		1	1169.0										1	1169.0
Essex	Anderdon													2	751.8	2 Brine	2	751.8
	Gosfield S.								1			1	749.2				1	749.2
	Mersea			2		2	1967.4		3	1	1	5	5284.5				7	7251.9
	Rochester		1			1	838.4			1		1	1061.5				2	1899.9
	Tilbury West									1	1	2	486.6				2	486.6
Haldimand	Moulton	1				1	237.7	2				2	486.7				3	724.4
Huron	Stephen				1	1	592.9										1	592.9
Kent	Camden Gore				1	1	180.9										1	180.9
	Dover East		2	4	1	7	7564.6		2			2	2314.5				9	9879.1
	Howard			1		1	105.6										1	105.6
	Raleigh								2	1		3	249.7				3	249.7
	Romney			1		1	485.5										1	485.5
	Tilbury East			1	1	2	2228.2										2	2228.2
	Zone									1		1	126.5				1	126.5
Lambton	Brooke		2	3		5	2091.6			1		1	159.7	1	135.3	Strat	7	2386.6
	Dawn			4	1	5	2569.5		3	4		7	4241.0	5	2799.6	5 Stor.	17	9610.1
	Enniskillen		1	1		2	1291.8							1	198.0	Disp	3	1489.8
	Euphemia		1			1	500.7										1	500.7
	Moore	1		1	1	3	2727.6							4	2819.5	2Disp,2Stor.	7	5547.1
	Plympton			3		3	1774.7										3	1774.7
	Sarnia													9	2522.2	1LPG,7Str,1Sto	9	2522.2
	Sombra			2		2	1872.6		1			1	612.3	1	614.6	Stor.	4	3099.5
	Warwick			5		5	1865.6							1	146.2	Strat.	6	2011.8
Lincoln	Caistor							1				1	150.3				1	150.3
Middlesex	Mosa			2		2	303.1		2			2	244.1	2	388.1	Water Inject.	6	935.3
	West Williams			1		1	587.5										1	587.5
Norfolk	Charlotteville	2				2	787.5	3				3	1318.9				5	2106.4
	Houghton	2				2	862.1										2	862.1
	Middleton	3		1		4	1543.9	1				1	379.7				5	1923.6
	N. Walsingham	1				1	395.9	2				2	782.7				3	1178.6
Welland	Crowland							1				1	188.4				1	188.4
Wentworth	Binbrook							1				1	140.8				1	140.8
SUB TOTAL LAND		10	9	36	9	64	36052.7	11	17	10	2	40	19375.9	27	10558.1		131	65986.7
Lake Erie				7		7	3665.0	33		29		62	27454.5				69	31119.5
TOTAL		10	9	43	9	71	39717.7	44	17	39	2	102	46830.4	27	10558.1		200	97106.2

TABLE 8: LAKE ERIE DRILLING STATISTICS 1960 TO 1984 .

Year	EXPLORATORY				DEVELOPMENT				SERVICE					
	No. of Wells	Metres	Cumul. Wells	Cumul. Metres	No. of Wells	Metres	Cumul. Wells	Cumul. Metres	No. of Wells	Metres	Total Wells	Cumul. Wells	Metres Drilled	Cumul. Total Metres
1960	9	4232	9	4232	29	10462	29	10462		0	38	257	14693	14693
1961	8	2626	17	6857	28	9141	57	19603		0	36	293	11767	26461
1962	8	3097	25	9954	39	13292	96	32895		0	47	340	16388	42849
1963	15	6286	40	16240	20	7116	116	40011		0	35	375	13402	56251
1964	0	0	40	16240	20	6551	136	46563		0	20	395	6551	62803
1965	5	1676	45	17916	31	10211	167	56774		0	36	431	11888	74691
1966	0	0	45	17916	15	5552	182	62326	15	1211	30	461	6763	81454
1967	21	10021	66	27938	11	3954	193	66280		0	32	493	13975	95429
1968	29	14477	95	42415	16	6709	209	72989		0	45	538	21186	116615
1969	33	18370	128	60785	28	10389	237	83378	5	2151	66	604	30909	147524
1970	11	6771	139	67556	42	20219	279	103596		0	53	657	26990	174514
1971	8	4192	147	71747	29	15745	308	119342		0	37	694	19937	194451
1972	19	11841	166	83589	18	9464	326	128806		0	37	731	21306	215757
1973	16	9781	182	93370	26	13286	352	142092		0	42	773	23068	238824
1974	27	12103	209	105473	26	12948	378	155040		0	53	826	25051	263875
1975	30	13684	239	119157	40	16649	418	171689		0	70	896	30332	294207
1976	25	14141	264	133298	47	19068	465	190757		0	72	968	33209	327416
1977	21	13767	285	147064	44	24792	509	215549		0	65	1033	38559	365975
1978	23	15152	308	162216	62	31114	571	246663		0	85	1118	46266	412241
1979	24	14360	332	176576	97	52018	668	298681		0	121	1239	66378	478619
1980	50	29657	382	206234	76	45502	744	344182		0	126	1365	75159	553778
1981	19	9349	401	215583	76	36268	820	380450		0	95	1460	45617	599395
1982	10	4848	411	220431	54	24488	874	404938		0	64	1524	29336	628731
1983	16	7532	427	227963	55	25101	929	430039		0	71	1595	32633	661364
1984	7	3671	434	231635	62	27450	991	457489		0	69	1664	31121	692485

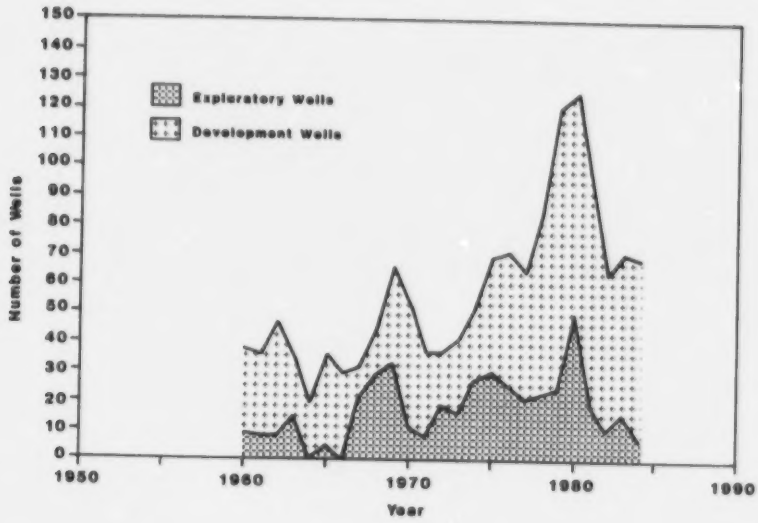


Figure 4. *Exploratory and Development Wells Drilled Annually in Lake Erie, 1960–1984.*

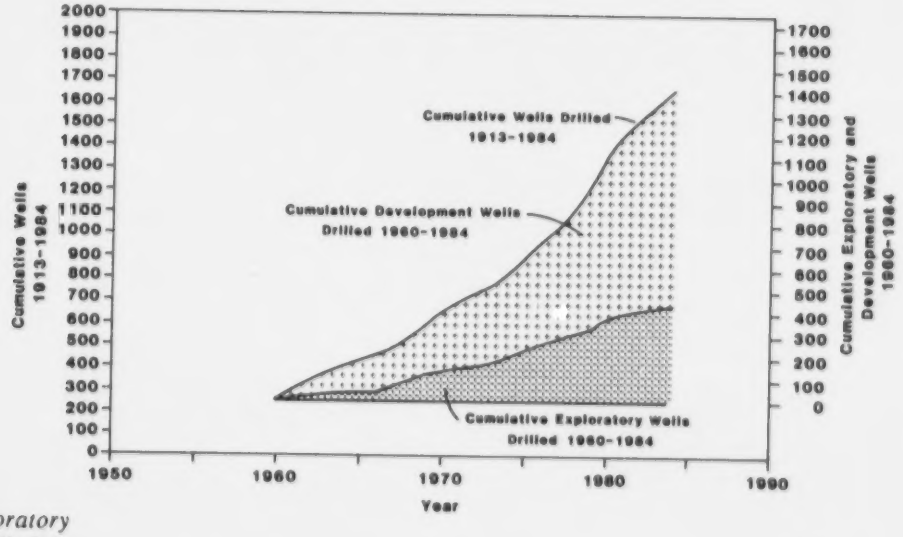


Figure 5. *Cumulative Exploratory and Development Wells Drilled in Lake Erie, 1960–1984.*

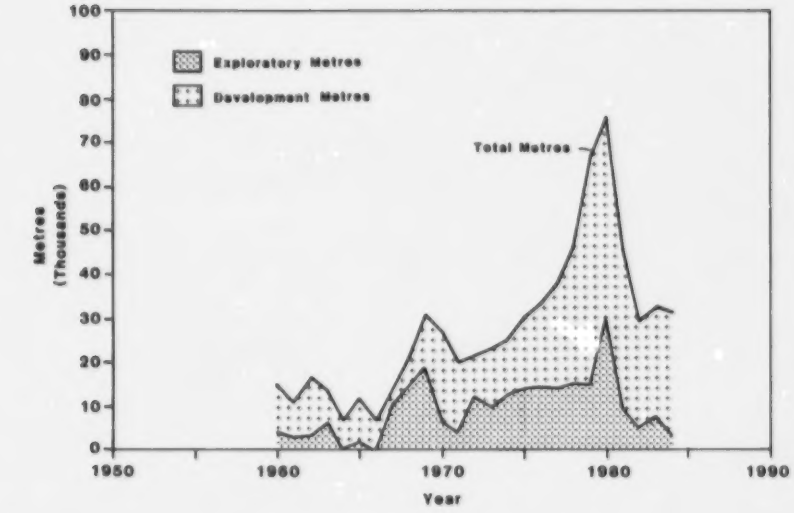


Figure 6. *Exploratory and Development Metres Drilled Annually in Lake Erie, 1960–1984.*

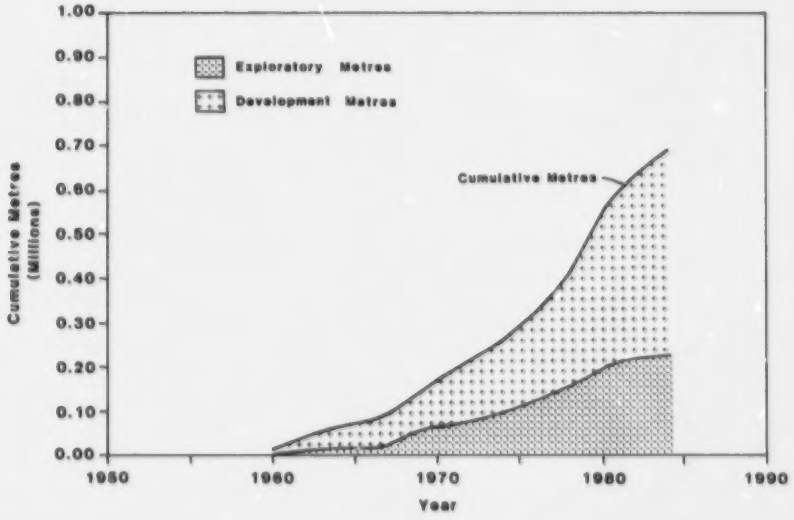


Figure 7. *Cumulative Exploratory and Development Metres Drilled in Lake Erie, 1960–1984.*

TABLE 9: TOTAL DRILLING STATISTICS 1955 - 1984.

year	EXPLORATORY					DEVELOPMENT					SERVICE								
	wells	metres	ave depth	cum. wells	cum. metres	wells	metres	ave depth	cum. wells	cum. metres	wells	metres	ave depth	cum. wells	cum. metres	total wells	cum. wells	total metres	cum. metres
1955	123	64414.6	523.7	123	64414.6	261	80662.0	309.0	261	80662	6			6	0.0	390	390	145076.6	145077
1956	134	67556.5	504.2	257	131971.1	290	89085.4	307.2	551	169747	7			13	0.0	431	821	156641.9	301718
1957	122	55660.4	456.2	379	187631.5	288	99079.5	344.0	839	268827	11			24	0.0	421	1242	154739.9	456458
1958	96	54504.3	567.8	475	242135.9	222	89702.0	404.1	1061	358529	35			59	0.0	353	1595	144206.4	600665
1959	116	59050.4	509.1	591	301186.3	165	63743.4	386.3	1226	422272	29			88	0.0	310	1905	122793.9	723459
1960	172	56107.6	326.2	763	357293.9	94	66373.5	706.1	1320	488646	40			128	0.0	306	2211	122481.1	845940
1961	165	49057.9	297.3	928	406351.8	85	56042.0	659.3	1405	544688	17	5473.0	321.9	145	5473.0	267	2478	110572.9	956513
1962	124	51013.5	411.4	1052	457365.3	81	58906.2	727.2	1486	603594	21	3062.0	145.8	166	8535.0	226	2704	112981.7	1069494
1963	93	66324.5	713.2	1145	523689.8	109	53386.6	489.8	1595	656981	14	3849.3	275.0	180	12384.3	216	2920	123560.4	1193055
1964	125	70824.5	566.6	1270	594514.3	91	60567.1	665.6	1686	717548	45	17738.8	394.2	225	30123.1	261	3181	149130.4	1342185
1965	108	54310.5	502.9	1378	648824.8	80	46476.5	581.0	1766	764024	16	6157.6	384.8	241	36280.6	204	3385	106944.6	1449130
1966	62	41181.8	664.2	1440	690006.6	56	27066.2	483.3	1822	791090	28	8074.5	288.4	269	44355.1	146	3531	76322.5	1525452
1967	68	38874.5	571.7	1508	728881.1	67	23815.8	355.5	1889	814906	21	9427.2	448.9	290	53782.3	156	3687	72117.5	1597570
1968	73	38823.3	531.8	1581	767704.4	79	39819.6	504.0	1968	854726	36	17955.5	498.8	326	71737.7	188	3875	96598.4	1694168
1969	144	91881.4	638.1	1725	859585.8	64	26345.9	411.7	2032	881072	29	16974.9	585.3	355	88712.6	237	4112	135202.2	1829370
1970	70	44411.2	634.4	1795	903997.0	98	49069.7	500.7	2130	930141	22	13434.7	610.7	377	102147.3	190	4302	106915.6	1936286
1971	64	39196.1	612.4	1859	943193.1	66	35323.5	535.2	2196	965465	30	13657.2	455.2	407	115804.5	160	4462	88176.8	2024463
1972	88	46991.9	534.0	1947	990185.0	47	23914.9	508.8	2243	989380	48	18445.9	384.3	455	134250.4	183	4645	89352.7	2113815
1973	52	31497.4	605.7	1999	1021682.4	56	27853.5	497.4	2299	1017233	18	7496.6	416.5	473	141746.9	126	4771	66847.5	2180663
1974	80	44415.2	555.2	2079	1066097.6	60	27143.9	452.4	2359	1044377	30	12602.6	420.1	503	154349.5	170	4941	84161.7	2264824
1975	66	37428.5	567.1	2145	1103526.1	71	26727.6	376.4	2430	1071105	25	15203.1	608.1	528	169552.6	162	5103	79359.2	2344184
1976	58	36088.3	622.2	2203	1139614.4	92	36600.9	397.8	2522	1107706	9	3804.5	422.7	537	173357.1	159	5262	76493.7	2420677
1977	57	33405.8	586.1	2260	1173020.2	113	55861.0	494.3	2635	1163567	19	8505.4	447.7	556	181862.6	189	5451	97772.2	2518450
1978	62	41724.1	673.0	2322	1214744.3	102	47902.9	469.6	2737	1211470	15	8448.8	563.3	571	190311.3	179	5630	98075.8	2616525
1979	67	45280.9	675.8	2389	1260025.2	142	69122.3	486.8	2879	1280592	13	7899.7	607.7	584	198211.0	222	5852	122302.9	2738828
1980	104	61244.1	588.9	2493	1321269.3	121	55954.2	462.4	3000	1336546	14	8383.5	598.8	598	206594.5	239	6091	125581.8	2864410
1981	50	29798.2	596.0	2543	1351067.5	131	56822.9	433.8	3131	1393369	50	9860.1	197.2	648	216454.6	231	6322	96481.2	2960891
1982	45	27813.2	618.1	2588	1378880.7	121	41890.9	346.2	3252	1435260	17	9772.0	574.8	665	226226.6	183	6505	79476.1	3040367
1983	49	29920.0	610.6	2637	1408800.7	116	51383.0	443.0	3368	1486643	48	14867.0	309.7	713	241093.6	213	6718	96170.0	3136537
1984	72	39874.4	553.8	2709	1448675.1	101	46725.5	462.6	3469	1533368	27	10558.1	391.0	740	251651.7	200	6918	97158.0	3233695

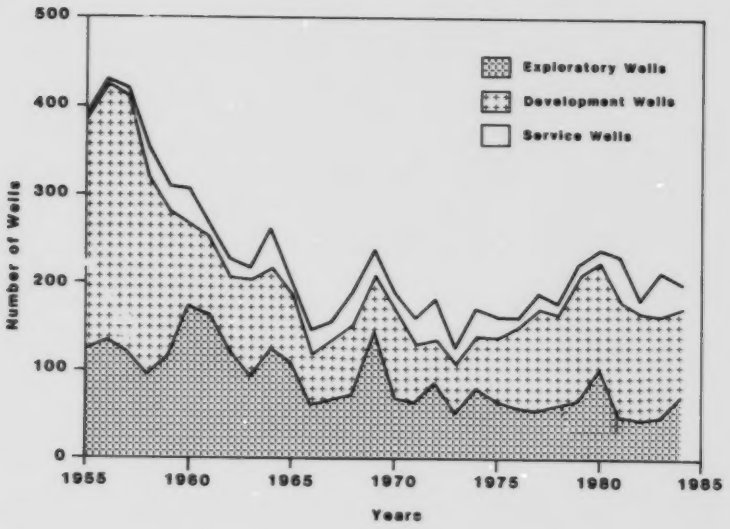


Figure 8. *Exploratory, Development, and Service Wells Drilled Annually in Ontario, 1955–1984.*

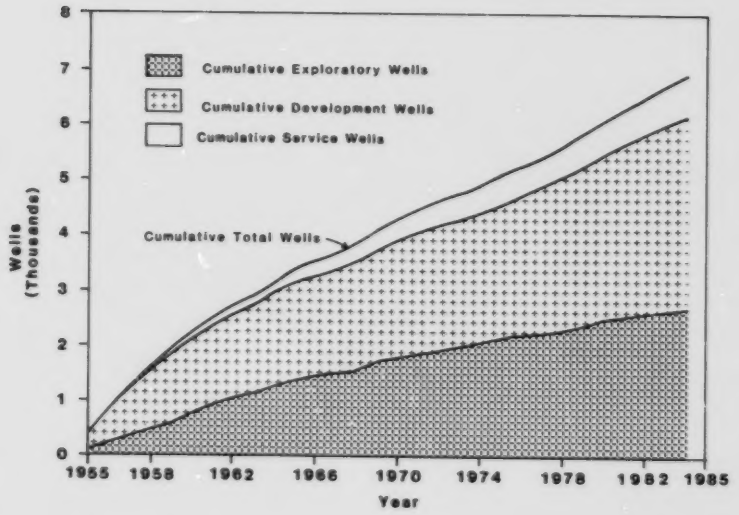


Figure 9. *Cumulative Exploratory, Development, and Service Wells Drilled in Ontario, 1955–1984.*

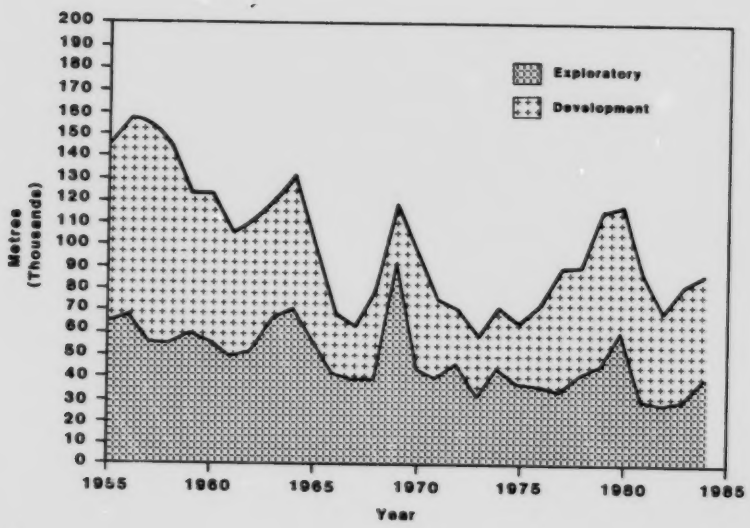


Figure 10. *Exploratory and Development Metres Drilled Annually in Ontario, 1955–1984.*

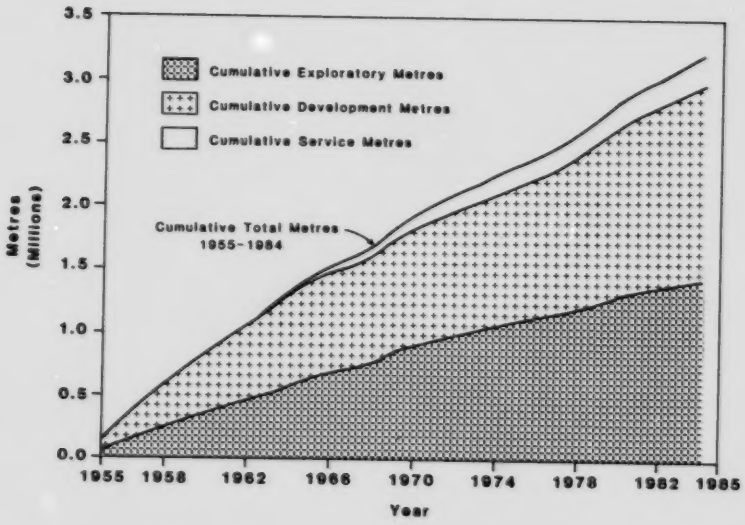


Figure 11. *Cumulative Exploratory, Development, and Service Metres Drilled in Ontario, 1955–1984.*

TABLE 10: DRILLING SUMMARY BY GEOLOGICAL AGE 1984.

	Exploratory Wells				Development Wells							
	Oil	Gas	Dry	Susp	Oil	Gas	Dry	Susp	Service Wells	Total Wells	Exploratory Success Rate %	Development Success Rate %
Devonian	4		10	4	7		3	1	13	42	22	64
Silurian												
Clinton-Cataract		9	9			44	29			92	50	60
Salina-Guelph	2	1	15	1	4		5		14	42	16	44
Ordovician	1			2	1					4	33	100
Cambrian	2		8	2	5		2	1		20	17	63
Precambrian												
TOTAL	9	10	42	9	17	44	39	2	27	200	27	60

VI. Production

1. LICENCES

In 1984, 134 licences to produce oil and gas were isssued, compared to 133 in 1983. Appendix I, Table I.4 lists persons licenced to produce gas and oil in 1984.

2. CUMULATIVE PRODUCTION

In 1984, 961 active oil wells produced a total of 90,333.3 m^3 of crude oil, up 7% from 1983 production, for an average production rate of 94 m^3 per well (see Figure 12). Cumulative oil production from 1863 to year end in 1984 totalled 9,324,901 m^3 (Table 11 and Figure 13).

The average wellhead price for crude oil was \$194.87/m^3 in 1984, which generated a total revenue, including NORP and SOOP supplements, of \$17.6 million. Producers of NORP (New Oil Reference Price) oil, received a total of \$1.6 million in NORP supplements for 25,950.8 m^3 (Figure 14). SOOP (Special Old Oil Price, see Figure 15) oil producers realized a total subsidy of \$574,966.98, for 9,419.3 m^3 of oil. Under the NEP the federal government contributed \$2.2 million to the NORP and SOOP programs in Ontario. Table 12 shows the NORP and SOOP prices paid for D2, S2 oil. The 54,963.2 m^3 of COOP at an average wellhead price of \$185.85/m^3, earned a total of \$10.2 million in 1983.

Natural gas production for the year amounted to 545,009.4 10^3m^3, produced from 1128 active wells for a 4% increase over 1983 production. The average production rate was 483 10^3m^3 per well (see Figure 16). Cumulative production from 1905 until 1984 amounts to 26,018,297 10^3m^3 (Table 13, Figure 17). Average price at the wellhead for the year was \$126.63/10^3m^3 , generating a total revenue in 1984 of \$69.0 million.

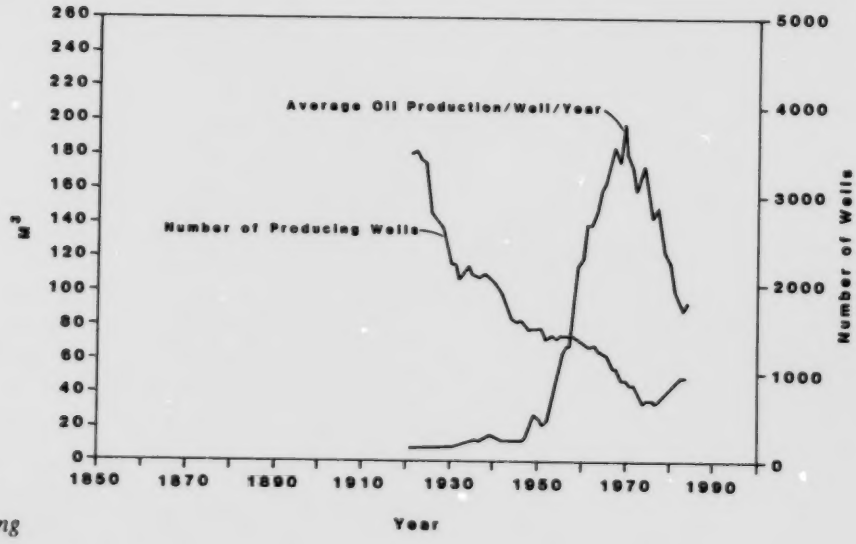


Figure 12. *Number of Producing Oil Wells and Average Oil Production/Well/Year, 1921–1984.*

TABLE 11: HISTORICAL OIL PRODUCTION 1863 - 1984.

Year	Number of Producing Oil Wells	Oil Production M^3	Aver. Oil Production /Well/Year	Cumulative Oil Production
1863		18125		18125
1864		23530		41655
1865		28936		70590
1866		34341		104931
1867		39747		144678
1868		45152		189831
1869		50558		240388
1870		56774		297163
1871		57911		355073
1872		59047		414120
1873		60183		474303
1874		61319		535623
1875		62456		598078
1876		63592		661670
1877		64728		726398
1878		65865		792263
1879		67001		859264
1880		68137		927401
1881		72673		1000074
1882		77222		1077295
1883		81765		1159060
1884		87216		1246276
1885		93120		1339396
1886		97663		1437059
1887		98572		1535631
1888		115266		1650896
1889		112881		1763777
1890		119240		1883017
1891		123215		2006232
1892		121625		2127857
1893		127190		2255047
1894		131164		2386211
1895		132754		2518965
1896		124010		2642975
1897		119240		2762216
1898		122420		2884636
1899		108906		2993542
1900		107316		3100858
1901		99367		3200225
1902		84263		3284488
1903		75519		3360007
1904		77109		3437115
1905		96187		3533302
1906		93637		3626939
1907		123990		3750929
1908		84097		3835027
1909		66880		3901906
1910		49987		3951893
1911		45889		3997782
1912		38306		4036088
1913		35958		4072045
1914		33784		4105829
1915		34094		4139923
1916		31301		4171224
1917		32273		4203497
1918		45909		4249406
1919		34993		4284399
1920		28896		4313295
1921	3465	27482	8	4340777
1922	3506	26190	7	4366967
1923	3407	25342	7	4392310

TABLE 11: CONTINUED.

Year	Number of Producing Oil Wells	Oil Production M^3	Aver. Oil Production /Well/Year	Cumulative Oil Production
1924	3379	24534	7	4416844
1925	2884	22934	8	4439778
1926	2752	21777	8	4461555
1927	2708	22195	8	4483750
1928	2641	21330	8	4505080
1929	2443	19257	8	4524338
1930	2222	18650	8	4542987
1931	2208	19454	9	4562442
1932	2056	20723	10	4583164
1933	2151	21631	10	4604796
1934	2201	22478	10	4627274
1935	2109	26239	12	4653514
1936	2079	26311	13	4679825
1937	2082	26265	13	4706090
1938	2110	27448	13	4733538
1939	2065	32812	16	4766350
1940	2028	29833	15	4796183
1941	1956	25348	13	4821531
1942	1852	22870	12	4844401
1943	1728	21064	12	4865465
1944	1609	19884	12	4885349
1945	1579	18017	11	4903367
1946	1610	19568	12	4922935
1947	1559	20874	13	4943809
1948	1489	28139	19	4971948
1949	1518	41443	27	5013391
1950	1513	39851	26	5053243
1951	1471	31348	21	5084590
1952	1381	30496	22	5115086
1953	1423	47646	33	5162732
1954	1396	65578	47	5228311
1955	1433	83549	58	5311860
1956	1422	94338	66	5406198
1957	1428	99155	69	5505353
1958	1412	123746	88	5629099
1959	1384	159239	115	5788338
1960	1339	159787	119	5948125
1961	1312	182690	139	6130815
1962	1300	180377	139	6311192
1963	1311	191639	146	6502831
1964	1243	198207	159	6701038
1965	1234	203371	165	6904408
1966	1183	210464	178	7114873
1967	1068	197192	185	7312064
1968	1041	182959	176	7495024
1969	929	184726	199	7679749
1970	920	166693	181	7846442
1971	873	152326	174	7998768
1972	878	139608	159	8138376
1973	756	128565	170	8266941
1974	673	116707	173	8383649
1975	693	111978	162	8495627
1976	695	98812	142	8594439
1977	658	98372	150	8692811
1978	715	95144	133	8787956
1979	760	92932	122	8880888
1980	804	93272	116	8974160
1981	871	90094	103	9064253
1982	916	85704	94	9149957
1983	952	84610	89	9234568
1984	961	90333	94	9324901

Figure 13. *Annual and Cumulative Oil Production, 1863–1984.*

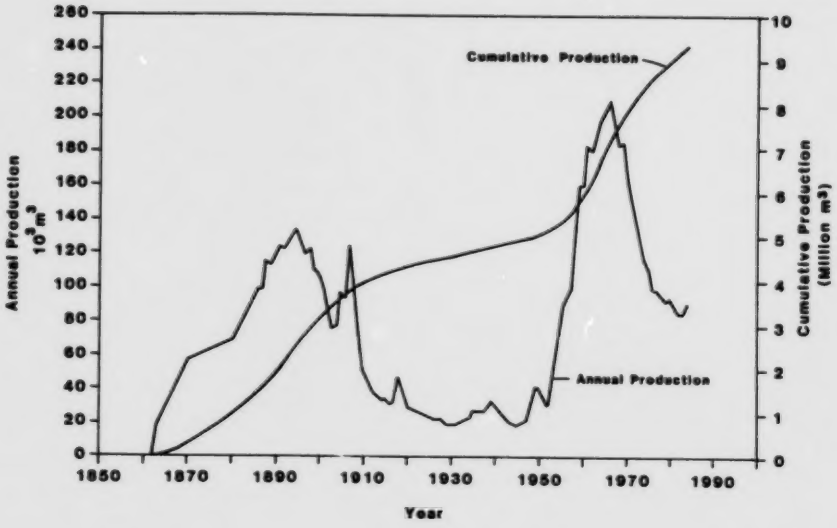


TABLE 12: OIL PRICES D2S3 QUALITY, 1982–1984 ($/m³).

Month	Coop	Norp	Norp Supp	Soop	Soop Supp
Jan 1/1982	147.25	278.00	130.75		
Feb 1/1982	147.25	278.00	130.75		
Mar 1/1982	147.25	278.00	130.75		
Apr 1/1982	147.25	278.00	130.75		
May 1/1982	147.25	278 00	130.75		
June 1/1982	147.25	278.00	130.75		
July 1/1982	161.10	260.95	99.85	189.00	27.90
Aug 1/1982	161.10	260.95	99.85	189.00	27.90
Sept 1/1982	161.10	260.95	99.85	189.00	27.90
Oct 1/1982	161.10	272.90	111.80	195.80	34.70
Nov 1/1982	161.10	272.90	111.80	195.80	34.70
Dec 1/1982	161.10	272.90	111.80	195.80	34.70
Jan /1983	185.85	271.20	85.35	193.45	7.60
Feb /1983	185.85	268.40	82.55	191.30	5.45
Mar /1983	185.85	268.40	82.55	191.30	5.45
Apr /1983	185.85	264.95	79.10	189.55	3.70
May /1983	185.85	261.40	75.55	186.80	0.95
June 1/1983	185.85	257.40	71.55	185.85	0.00
July 1/1983	185.85	246.10	60.25	246.10	60.25
Aug 1/1983	185.85	235.80	49.95	235.80	49.95
Sept 1/1983	185.85	227.70	41.85	227.70	41.85
Oct 1/1983	185.85	227.70	41.85	227.70	41.85
Nov 1/1983	185.85	235.45	49.60	235.45	49.60
Dec 1/1983	185.85	238.50	52.65	238.50	52.65
Jan 1/1984	185.85	242.05	56.20	242.05	56.20
Feb 1/1984	185.85	242.05	56.20	242.05	56.20
Mar 1/1984	185.85	242.05	56.20	242.05	56.20
Apr 1/1984	185.85	247.70	61.85	247.70	61.85
May 1/1984	185.85	248.50	62.65	248.50	62.65
June 1/1984	185.85	253.00	67.15	253.00	67.15
July 1/1984	185.85	253.90	68.05	253.90	68.05
Aug 1/1984	185.85	258.30	72.45	258.30	72.45
Sept 1/1984	185.85	254.90	69.05	254.90	69.05
Oct 1/1984	185.85	257.00	71.15	257.00	71.15
Nov 1/1984	185.85	255.20	69.35	255.20	69.35
Dec 1/1984	185.85	252.35	66.50	252.35	66.50

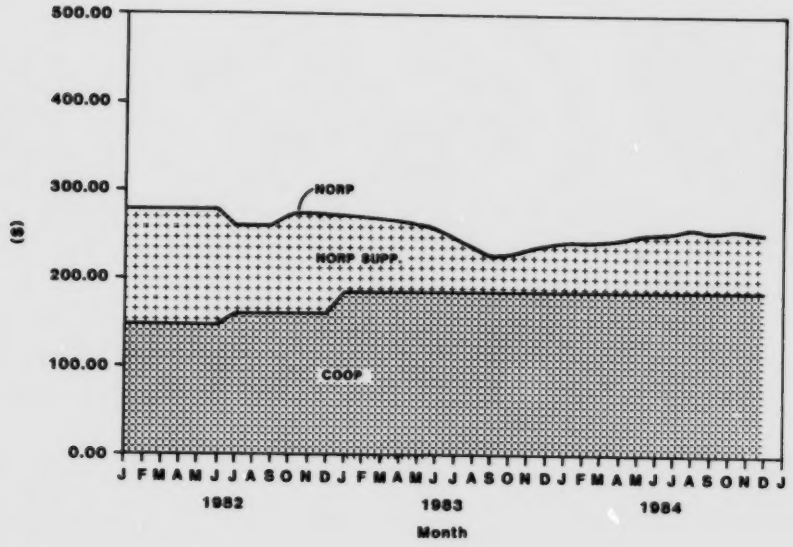


Figure 14. *COOP and NORP Values, 1982–1984.*

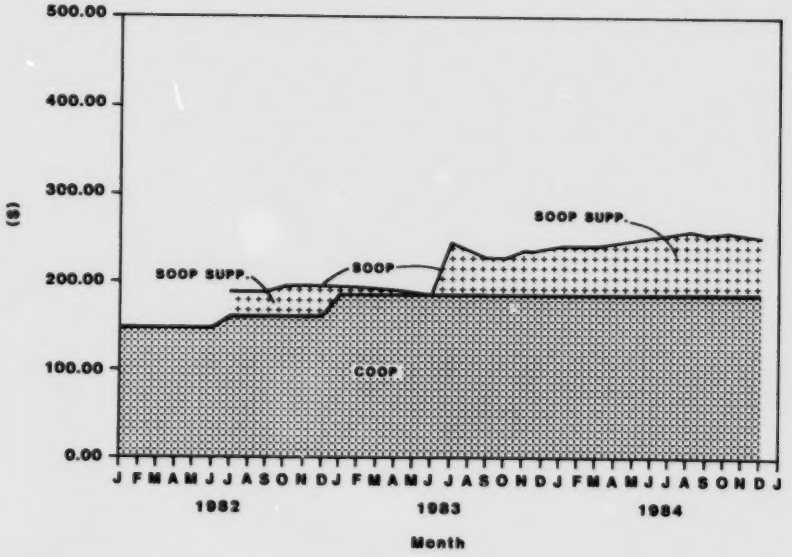


Figure 15. *COOP and SOOP Values, 1982–1984.*

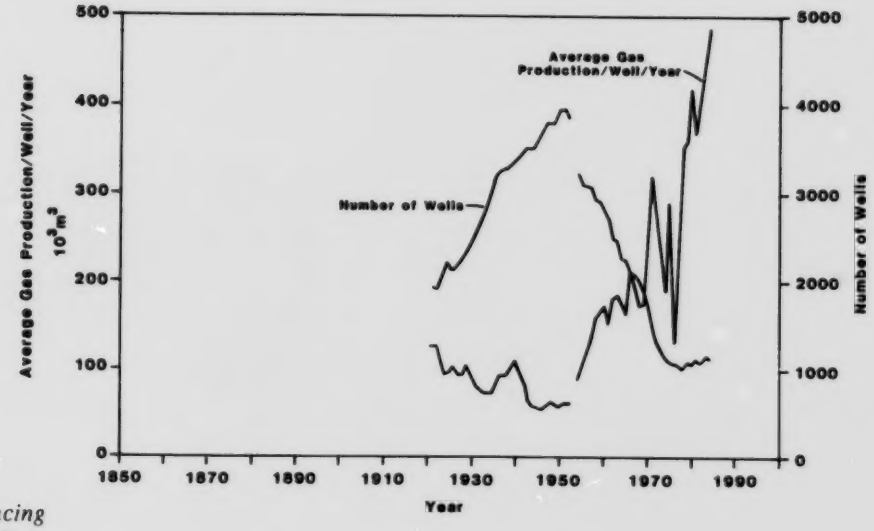


Figure 16. *Number of Producing Gas Wells and Average Gas Production/Well/Year, 1921–1984.*

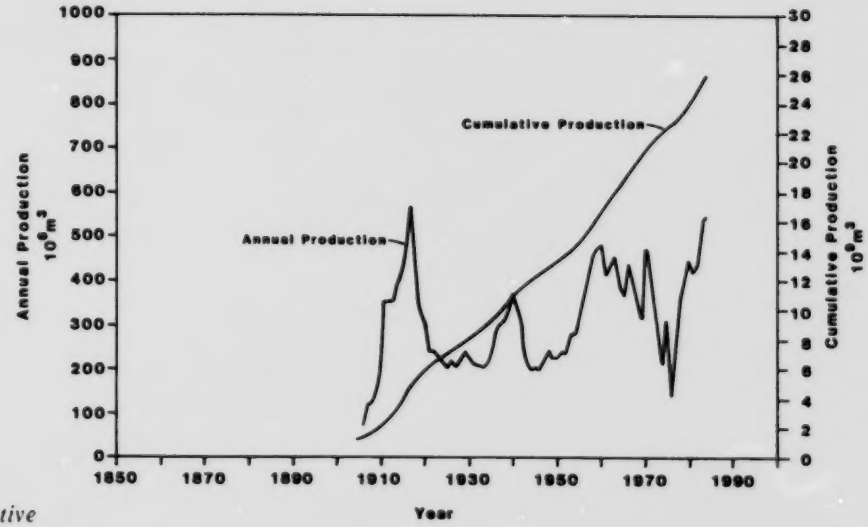


Figure 17. *Annual and Cumulative Gas Production 1906–1984.*

TABLE 13: HISTORICAL GAS PRODUCTION 1905 - 1984.

Year	Number of Producing Gas Wells	Gas Production 1000 M^3	Aver. Gas Production /Well/Year	Cumulative Gas Production
1905				1258145
1906		71788		1329933
1907		117728		1447661
1908		126994		1574655
1909		152630		1727285
1910		205754		1933039
1911		348770		2281808
1912		352820		2634629
1913		355752		2990381
1914		398369		3388750
1915		430932		3819681
1916		507893		4327574
1917		567305		4894879
1918		370171		5265050
1919		327563		5592613
1920		303938		5896551
1921	1915	241700	126	6138251
1922	1907	242721	127	6380972
1923	2004	230260	115	6611233
1924	2210	208802	94	6820035
1925	2125	205583	97	7025618
1926	2126	220291	104	7245909
1927	2217	207111	93	7453020
1928	2272	216219	95	7669239
1929	2349	243143	104	7912382
1930	2452	225020	92	8137402
1931	2606	210179	81	8347581
1932	2707	209234	77	8556815
1933	2821	203016	72	8759831
1934	2977	217639	73	8977470
1935	3127	231122	74	9208592
1936	3218	283469	88	9492061
1937	3252	304420	94	9796482
1938	3273	310269	95	10106751
1939	3322	338987	102	10445738
1940	3382	369775	109	10815513
1941	3429	335082	98	11150595
1942	3503	296784	85	11447379
1943	3511	224198	64	11671577
1944	3500	200632	57	11872209
1945	3612	203960	56	12076169
1946	3696	199748	54	12275917
1947	3793	220558	58	12496475
1948	3785	243348	64	12739824
1949	3812	227309	60	12967132
1950	3938	226891	58	13194024
1951	3951	239167	61	13433191
1952	3846	235183	61	13668374
1953	NA	278618	NA	13946992
1954	3211	283726	88	14230718
1955	3103	307438	99	14538156
1956	3083	362925	118	14901082
1957	3057	407947	133	15309029
1958	2931	457438	156	15766466
1959	2900	477019	164	16243485
1960	2792	481207	172	16724692
1961	2728	412005	151	17136697
1962	2472	443282	179	17579979
1963	2449	450981	184	18030960
1964	2262	391377	173	18422336
1965	2208	359749	163	18782085
1966	2098	440134	210	19222219

TABLE 13: CONTINUED.

Year	Number of Producing Gas Wells	Gas Production 1000 M^3	Aver. Gas Production /Well/Year	Cumulative Gas Production
1967	2043	402769	197	19624989
1968	1986	341799	172	19966788
1969	1834	318345	174	20285133
1970	1672	471643	282	20756776
1971	1439	457997	318	21214773
1972	1292	350561	271	21565333
1973	1187	269911	227	21835244
1974	1130	213506	189	22048750
1975	1083	309778	286	22358528
1976	1070	140439	131	22498966
1977	1034	241522	234	22740489
1978	1017	352997	347	23093485
1979	1078	377576	350	23471061
1980	1066	448904	421	23919965
1981	1141	517701	454	24437666
1982	1086	512663	472	24950328
1983	1169	522960	447	25473288
1984	1128	545009	483	26018297

Cumulative natural gas production from Lake Erie for the period 1960–1984 amounts to 5,370,640 10^3m^3 (Table 14, Figures 18 and 19).

3. OIL PRODUCTION

The most productive pool in 1984 was the Devonian Rodney Pool, followed by the Petrolia and Oil Springs Pools. Production figures on a pool basis for the 6 year period 1979–1984 are given in Table 15.

Silurian oil pools contributed 42% of the total oil produced in Ontario followed by Devonian pools with 39% then Ordovician with 11% and Cambrian with 8%.

Lambton County produced 52% of the total provincial oil and Elgin County 27% (Table 16, Figure 20).

Table 16 provides production statistics for each pool producing oil in 1984.

4. GAS PRODUCTION

The most productive gas pools in 1984 were once again the Maitland Pool with 26% of total production and the Morpeth Pool with 16% followed by the Silver Creek (14%), Moore 3–21–XII (11%), and Clear Creek (9%) Pools.

TABLE 14: LAKE ERIE GAS PRODUCTION 1960 TO 1984.

Year	No. of Active Wells	No. of Suspended Wells	1000 Cubic Metres	Average Production/ Well(1000 m^3)	Cumulative Production 1000 m^3
1960	127	17	102021.4	803.3	1083614.1
1961	145	41	92750.8	639.7	1176364.8
1962	172	49	87687.6	509.8	1264052.5
1963	168	74	100090.7	595.8	1364143.1
1964	196	63	97954.7	499.8	1462097.8
1965	225	57	105758.6	470.0	1567856.4
1966	228	60	125980.1	552.5	1693836.5
1967	200	86	117186.6	585.9	1811023.1
1968	222	81	103471.6	466.1	1914494.7
1969	223	107	117103.9	525.1	2031598.7
1970	250	90	144800.2	579.2	2176398.8
1971	268	47	143558.8	535.7	2319957.6
1972	272	59	175858.4	646.5	2495816.0
1973	285	49	181161.6	635.7	2676977.6
1974	291	73	151038.1	519.0	2828015.7
1975	272	107	160309.0	589.4	2988324.7
1976	279	114	80587.0	288.8	3068911.7
1977	320	141	157891.5	493.4	3226803.2
1978	328	100	212634.5	648.3	3439437.7
1979	344	119	208263.4	605.4	3647701.1
1980	376	NA	271857.2	723.0	3919558.3
1981	474	NA	319593.1	674.2	4239151.4
1982	444	NA	348688.1	785.3	4587839.5
1983	527	161	379013.0	719.2	4966852.5
1984	585	148	403787.0	690.2	5370639.5

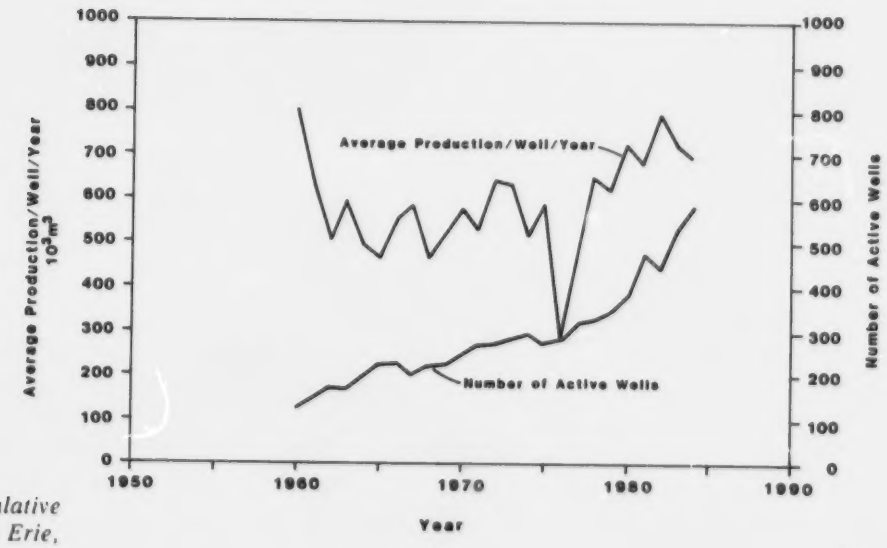


Figure 18. *Annual and Cumulative Gas Production from Lake Erie, 1960–1984.*

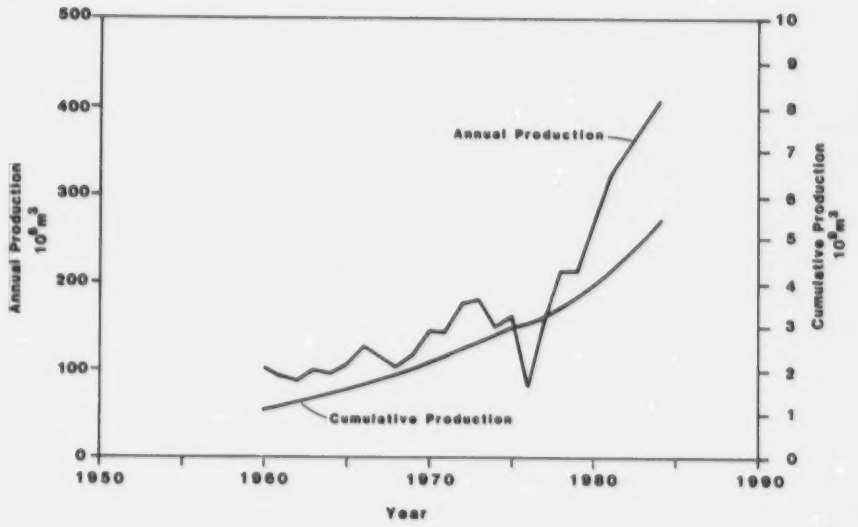


Figure 19. *Number of Producing Gas Wells and Average Gas Production/Well/Year, 1960–1984.*

TABLE 15: OIL PRODUCTION BY GEOLOGICAL AGE, 1979-1984.

COUNTY	POOL NAME	1979 m³	1980 m³	1981 m³	1982 m³	1983 m³	1984 m³
				DEVONIAN			
Elgin	Aldborough 3-8-16-XII	0.0	0.0	0.0	0.0	0.0	1653.0
	Rodney	24158.8	23430.9	21720.6	20788.8	20307.8	19450.1
	Wallacetown	151.9	151.9	151.9	36.4	63.0	55.9
Kent	Bothwell-Thamesville	1423.5	1518.1	1403.9	1413.7	1477.8	1467.8
	Prarie Siding	0.0	0.0	0.0	0.0	0.0	25.8
	Zone 6-5-IV	0.0	0.0	0.0	118.3	43.9	26.1
Lambton	Beaver Meadow	43.1	94.9	35.3	36.6	0.0	0.0
	Brooke 2-24-X	0.0	0.0	0.0	0.0	0.0	27.1
	Brooke 5-14-XII	0.0	0.0	0.0	0.0	12.1	4.0
	Florence-Oakdale	0.0	0.0	0.0	0.0	0.0	38.4
	London Road	0.0	0.0	0.0	0.0	0.0	0.0
	Oil Springs	4123.0	4850.5	5396.0	5660.3	6069.7	5953.9
	Petrolia	3395.1	4917.2	4766.7	5445.4	6361.1	6244.6
	Watford-Kerwood	0.0	0.0	0.0	0.0	52.9	0.0
	Wilsoncroft	0.0	0.0	24.5	8.8	31.8	7.7
Middlesex	Glencoe	0.0	0.0	249.0	293.5	356.1	264.7
	Subtotal - Devonian	33295.4	34963.5	33747.9	33801.8	34776.2	35219.1
	% of Ontario production	35.8	37.5	37.5	39.4	41.1	39.0
				SILURIAN			
Essex	Comber	0.0	0.0	0.0	0.0	0.0	0.0
	Staples	0.0	0.0	0.0	0.0	0.0	360.4
Huron	Grand Bend	4460.9	4269.6	3294.5	2956.8	2784.6	2459.4
	Tipperary	0.0	148.8	250.2	133.8	128.3	118.8
	Tipperary South	0.0	0.0	0.0	159.1	9.0	0.0
Kent	Chatham	311.0	162.0	319.4	177.8	331.0	236.2
	Dresden	182.2	181.7	166.7	139.3	145.1	129.9
	Fletcher	0.0	0.0	0.0	10.5	135.1	418.4
	Morpeth	0.0	0.0	0.0	0.0	25.0	27.0
Lambton	Becher West	6172.4	6636.9	6419.0	5722.7	5340.6	5255.6
	Brigden	291.6	300.2	256.9	224.2	245.0	229.2
	Brooke	3029.4	2783.7	2451.9	1667.5	1593.9	1023.9
	Brooke 1-9-X	1393.4	784.7	535.0	351.9	296.9	178.6
	Corey East	753.9	158.9	1577.3	3961.7	3358.2	2997.6
	Corunna	3017.6	2403.7	3524.1	2601.7	2050.8	2185.2
	Cromar	562.2	659.7	697.9	522.8	600.4	642.5
	Dawn 156	510.5	276.5	278.5	275.1	224.4	146.9
	Dawn 28-II	129.0	135.0	164.0	280.9	1554.9	4932.9
	Dawn 4-28-III	0.0	0.0	0.0	86.7	272.8	160.4
	Dawn 5-29-IX	0.0	0.0	121.0	354.1	127.8	7.0
	Dawn Miscellaneous	1315.9	1515.2	1192.5	1598.0	1789.9	2101.2
	Edys Mills	698.2	1833.5	1906.7	1594.5	1406.0	1357.9
	Enniskillen 2-30-IX	318.7	266.6	86.3	26.4	58.3	48.1
	Enniskillen 7-30-IX	0.0	0.0	0.0	0.0	0.0	644.2
	Euphemia 8-18-IV	0.0	0.0	0.0	0.0	0.0	0.0
	Ladysmith	2985.1	2900.9	2351.7	2110.9	2123.1	2266.4
	Logerait	0.0	0.0	0.0	0.0	0.0	0.0
	Moore 5-6-III	0.0	0.0	0.0	0.0	0.0	0.0
	Moore 7-6-III	0.0	0.0	568.4	699.8	562.5	567.6
	Moore 2-22-II	0.0	0.0	0.0	0.0	0.0	0.0
	Oil Springs East	63.0	363.0	68.0	47.0	22.9	14.4
	Osborne	105.0	28.6	149.9	94.1	76.5	47.5
	Otter Creek East	0.0	0.0	0.0	0.0	12.2	272.3
	Petrolia East	3085.8	2835.4	2716.7	2279.1	1832.9	1915.8
	Plympton 5-19-VI	2897.4	3064.0	5400.7	4329.4	3269.7	2418.6
	Seckerton	1987.0	1928.6	1961.5	2061.2	1211.3	1986.7
	Seckerton North	1445.0	1563.9	1978.9	1792.5	1171.2	808.9
	Shetland	0.0	0.0	12.3	11.1	5.3	15.4
	Sombra 18-VII	62.1	164.9	191.3	105.3	108.8	142.5
	Sombra 4-9-XII	0.0	0.0	0.0	5.6	4.3	0.0
	Sombra 6-28-IX	30.2	19.0	55.1	99.0	110.6	108.1

TABLE 15: CONTINUED.

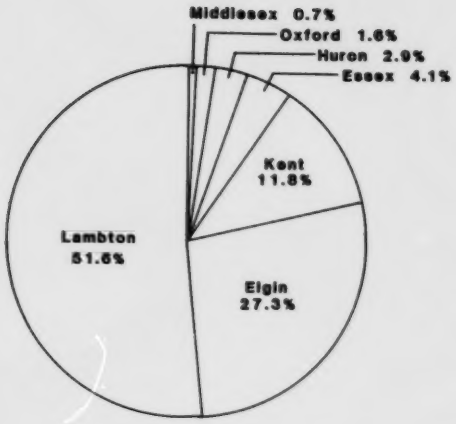
COUNTY	POOL NAME	1979 m³	1980 m³	1981 m³	1982 m³	1983 m³	1984 m³
Lambton (cont.)	Sutorville	87.3	104.6	105.7	96.0	98.9	84.2
	Wanstead	973.0	703.0	495.5	691.2	705.8	700.1
	Warwick	1103.0	922.8	860.6	767.8	688.4	584.8
	Warwick 6-17-IV SER	223.8	457.6	433.5	311.9	50.8	452.7
Middlesex	Mosa	154.4	175.0	144.0	130.0	129.6	108.2
	Subtotal - Silurian	38349.0	37748.0	40735.7	38477.4	34662.8	38155.5
	% of Ontario production	41.3	40.5	45.2	44.9	41.0	42.2
				ORDOVICIAN			
Elgin	Aldborough 4-A-VIII	0.0	361.6	346.7	188.0	119.1	77.0
Essex	Colchester	1043.0	696.4	709.7	864.4	953.4	887.8
	Gosfield South	4590.0	3646.7	1951.0	1444.3	1223.5	1189.4
	Gosfield South 1-I_III	0.0	0.0	0.0	0.0	0.0	0.0
	Gosfield South 8-7-V	0.0	0.0	0.0	0.0	0.0	0.0
	Hillman	0.0	0.0	0.0	0.0	0.0	738.5
	Maidstone 7-17-V	0.0	0.0	0.0	0.0	0.0	0.0
	Malden	283.0	418.4	346.2	339.4	348.9	349.5
	Malden 3-41-IV	72.0	262.4	270.6	165.6	149.7	106.7
	Mersea 7-15-A	0.0	0.0	0.0	0.0	0.0	0.0
	Mersea 2-15-B	0.0	0.0	0.0	0.0	0.0	0.0
	Mersea 6-15-B	0.0	0.0	0.0	0.0	0.0	0.0
	Mersea 6-16-B	0.0	0.0	0.0	0.0	0.0	0.0
	Mersea 6-23-VII	0.0	0.0	0.0	0.0	0.0	0.0
	Rochester 1-20-V EBR	0.0	0.0	0.0	0.0	0.0	69.8
	Ruscom River	17.0	57.0	29.0	0.0	0.0	0.0
Halton	Hornby	0.0	0.0	0.0	0.0	0.0	0.0
Kent	Dover	65.0	75.7	55.8	54.7	851.2	651.5
	Dover 1-11-V E	0.0	0.0	0.0	0.0	0.0	3.3
	Dover 7-5-V E	0.0	0.0	0.0	0.0	2953.3	5380.3
	Romney 3-8-II	0.0	0.0	0.0	0.0	0.0	0.0
	Romney 6-13-III	0.0	0.0	0.0	0.0	0.0	0.0
	Tilbury East 1-24-IX	0.0	0.0	0.0	0.0	0.0	0.0
Manitoulin	Manitoulin	0.0	0.0	0.0	0.0	17.7	0.0
	Subtotal - Ordovician	6070.0	5518.2	3709.0	3056.4	6616.8	9453.8
	% of Ontario production	6.5	5.9	4.1	3.6	7.8	10.5
				CAMBRIAN			
Elgin	Dunwich 16-I	0.0	0.0	249.6	458.3	329.8	333.8
	Dunwich 18-I	64.1	79.1	33.4	62.1	32.9	64.2
	Willey	6778.0	7108.2	5382.0	4706.7	3843.0	3038.6
Kent	Clearville	3324.0	3471.4	3102.8	2890.6	2208.5	2325.2
	Zone 5-III	92.0	54.5	42.0	31.0	18.7	7.0
Middlesex	Ekfrid 10-V-S	64.3	176.3	53.6	91.6	138.2	98.3
	Ekfrid 8-V-S	121.2	130.7	60.3	0.0	92.1	135.6
	Willey North	989.9	573.7	472.9	387.1	166.0	26.4
Oxford	Gobles	3657.0	3364.4	2425.1	1562.9	1438.1	1294.5
	Innerkip	127.4	83.7	79.5	171.1	277.7	181.3
	Innerkip East	0.0	0.0	0.0	7.0	9.5	0.0
	Subtotal - Cambrian	15217.9	15042.0	11901.2	10368.4	8554.5	7504.9
	% of Ontario production	16.4	16.1	13.2	12.1	10.1	8.3
	Total production	92932.3	93271.7	90093.8	85704.0	84610.3	90333.3

TABLE 16: OIL PRODUCTION BY POOL, 1984.

County/ Pool Name	Active Wells	Production 1984 (m^3)	Operator 1984
ELGIN			
ALDBOROUGH 3-8-16-XII	0	1653.0	CONSUMERS'
ALDBOROUGH 4-A-VIII	1	77.0	REALOIL
DUNWICH 16-I	2	333.8	DENMAR
DUNWICH 5-18-I	1	64.2	DENMAR
RODNEY	126	19450.1	CAN. OCC., RAYROCK
WALLACETOWN	16	55.9	DUTTON
WILLEY	9	3038.6	SASKO
Subtotal	155	24672.6	
% of Ontario production		27.3	
ESSEX			
COLCHESTER	6	887.8	GAISWINKLER, PUTMAN
GOSFIELD SOUTH	8	1189.4	GAISWINKLER
HILLMAN	4	738.5	CONSUMERS'
MALDEN	4	349.5	GAISWINKLER
MALDEN 3-41-IV	1	106.7	GAISWINKLER
ROCHESTER 1-20-V	1	69.8	REVALLEE
STAPLES	1	360.4	BRETT
Subtotal	25	3702.1	
% of Ontario production		4.1	
HURON			
GRAND BEND	6	2459.4	SUNBURST
TIPPERARY	1	118.8	TIPPERARY
Subtotal	7	2578.2	
% of Ontario production		2.9	
KENT			
BOTHWELL-THAMESVILLE	33	1467.8	LOTTIE KAYDEN, POPE JR., SITLER, STEVENSON
CHATHAM	1	236.2	RIDDELL
CLEARVILLE	10	2325.2	MURPHY
DOVER	3	651.5	ROWE
DOVER 1-11-V E	1	3.3	
DOVER 7-5-V	2	5380.3	ROWE
DRESDEN	1	129.9	BRETT
FLETCHER	6	418.4	CONSUMERS'
MORPETH	0	27.0	CONSUMERS'
PRARIE SIDING	1	25.8	
ZONE 5-III	1	7.0	THAMES
ZONE 6-5-IV	1	26.1	THAMES
Subtotal	60	10698.5	
% of Ontario production		11.8	
LAMBTON			
BECHER WEST	17	5255.6	MURPHY
BRIGDEN	2	229.2	CONSUMERS'
BROOKE	5	1023.9	CRICH HOLDING
BROOKE 1-9-X	1	178.6	BLUEWATER
BROOKE 2-24-X	1	27.1	RAM
BROOKE 5-14-XII	1	4.0	RAM
COREY EAST	1	2997.6	RAM
CORUNNA	10	2185.2	ESSO
CROMAR	2	642.5	CORDEN, RAM
DAWN 156	1	146.9	ESSO
DAWN 28-II	4	4932.9	FORBES, BROOKWOOD
DAWN 4-28-III	1	160.4	BROOKWOOD
DAWN 5-29-IX	1	7.0	FORBES

TABLE 16: CONTINUED.

County/ Pool Name	Active Wells	Production 1984 (m^3)	Operator 1984
LAMBTON (Cont.)			
DAWN MISCELLANEOUS	11	2101.2	COLONIAL, DAWN PET., FORBES, JMCD, LMG, UNION
EDYS MILLS	1	1357.9	RAM
ENNISKILLEN 2-30-IX	1	48.1	BLUEWATER
ENNISKILLEN 7-30-IX	1	644.2	FRANCISCO
FLORENCE-OAKDALE	1	38.4	
LADYSMITH	3	2266.4	MICHIGAN
MOORE 7-6-III	1	567.6	CRAWFORD
OIL SPRINGS	420	5953.9	AYRHEART, BALDWIN, BARNES, BYERS, FAIRBANKS, BOLDEN, MATHESON, MITCHELL, MORNINGSTAR, MOTHERSBOUGH, PATTERSON, WOODS
OIL SPRINGS EAST	1	14.4	TALCORP
OSBORNE	1	47.5	MICHIGAN
OTTER CREEK EAST	1	272.3	CAMERON
PETROLIA	162	6244.6	AYRHEART, BEARCREEK, BENDER, BRAND, CANFLOW, CARTIER, EDWARD, JACQUES, NOBLE, PETROLIA, STEVENSON, VYE, WILLIAMS
PETROLIA EAST	6	1915.8	RAM
PLYMPTON 5-19-VI	3	2418.6	BLUEWATER
SECKERTON	9	1986.7	ESSO
SECKERTON NORTH	5	808.9	ESSO
SHETLAND	1	15.4	ANNET
SOMBRA 18-VII	1	142.5	CRAWFORD, RAM
SOMBRA 6-28-IX	1	108.1	CRAWFORD
SUTORVILLE	1	84.2	BRETT
WANSTEAD	3	700.1	ROTH
WARWICK	1	584.8	MURPHY
WARWICK 6-17-IV SER	1	452.7	BLUEWATER
WILSONCROFT	1	7.7	S & W
Subtotal	684	46572.9	
% of Ontario production		51.6	
MIDDLESEX			
EKFRID 1-10-VS	1	98.3	DENMAR
EKFRID 8-VS	2	135.6	DENMAR
GLENCOE	18	264.7	BEDFORD, CANACRUDE
MOSA	1	108.2	GAISWINKLER
WILLEY NORTH	4	26.4	S & W
Subtotal	26	633.2	
% of Ontario production		0.7	
OXFORD			
GOBLES	32	1294.5	GAISWINKLER
INNERKIP	2	181.3	GAISWINKLER, CAMERON
Subtotal	34	1475.8	
% of Ontario production		1.6	
TOTAL	991	90333.3	



TOTAL PRODUCTION 90,333.3 m^3

Figure 20. *Oil Production by County, 1984.*

Production figures on a pool basis for the 6 year period 1979–1984 are given in Table 17. In all, offshore gas production from the Lake Erie pools accounted for 74% (Figure 21) of Ontario production in 1984, a total of 403,787 10^3m^3, while onshore production amounted to 141,222 10^3m^3. Offshore gas production increased 7% over production in 1983, and onshore production decreased 2%.

The Silurian gas pools produced 98.4% of the total natural gas, Cambrian pools 1.1% and Ordovician pools the remaining 0.5% in Ontario in 1984 (Table 17).

Lambton County produced 63% of the natural gas on land (Table 18, Figure 22) however this represents only 16% of the total natural gas produced in the province. Figures 21 and 22 compare percentages of onshore gas production by county and percentages of total production which includes Lake Erie production.

Table 18 provides production statistics for each pool or production unit producing natural gas in 1984.

TABLE 17: NATURAL GAS PRODUCTION BY GEOLOGICAL AGE, 1979-1984.

COUNTY	POOL NAMES	1979 1000 m^3	1980 1000 m^3	1981 1000 m^3	1982 1000 m^3	1983 1000 m^3	1984 1000 m^3
				SILURIAN CLINTON/CATARACT			
Brant	Brant	565.2	439.7	485.6	351.6	382.3	407.4
Haldimand	Haldimand	1844.8	1485.8	2476.2	1969.3	1822.9	1660.1
Lincoln	Lincoln	305.2	267.1	215.5	219.8	228.2	276.6
Norfolk	Hemlock	2023.2	1735.1	1399.2	1133.4	737.1	724.5
	Norfolk	21985.8	26217.6	25092.9	20387.2	19305.4	19547.2
	Venison Creek	697.8	2407.9	3145.7	4604.4	4181.1	3567.8
	Wilsonville	0.0	0.0	105.4	0.0	0.0	0.0
	Wilsonville South	422.6	344.6	45.2	0.0	0.0	0.0
Oxford	Norwich South	47.7	70.6	26.7	0.0	0.0	0.0
Welland	Welland	2991.7	1985.4	1914.9	681.9	719.0	783.0
Lake Erie	Clear Creek	32922.0	37333.9	50194.9	43357.0	53613.8	48429.5
	Colborne	0.0	0.0	0.0	0.0	0.0	0.0
	Dover	25077.0	17823.5	16134.8	14233.0	17207.0	16243.0
	Leepfrog	0.0	5107.2	7453.8	6348.4	7417.0	4345.5
	Maitland	51106.0	66962.8	71029.7	115654.0	115526.2	140992.1
	Selkirk	14746.0	14853.9	13828.0	12937.0	12036.8	13049.0
	Silver Creek	64935.3	64643.4	55217.0	42709.9	53618.9	74863.7
	Subtotal - Clin/Cat	219670.3	241678.5	248765.5	264586.9	286795.7	324889.4
	% of Ontario production	58.2	53.8	48.1	51.6	54.8	59.6
				SILURIAN SALINA/GUELPH			
Elgin	Aldborough 4-20-VII	0.0	22.5	77.6	351.2	18.3	2.3
	Cowal	331.7	246.1	316.4	363.8	315.0	291.9
	Townline	2265.1	2311.0	2311.0	2246.4	2021.7	1162.7
Huron	Bayfield	0.0	0.0	0.0	0.0	1705.9	1525.9
	Stanley 4-7-XI	0.0	0.0	0.0	0.0	0.0	0.0
	Tipperary	0.0	525.5	1864.5	1451.8	1013.1	1003.1
	Tipperary South	0.0	57.7	1504.1	2389.1	1191.6	936.5
Kent	Botany	67.3	95.7	936.1	1029.1	631.4	1023.2
	Camden 1-11-XIV Gore	0.0	0.0	0.0	0.0	0.0	0.0
	Camden Gore	1704.6	1692.1	1281.5	1369.3	1449.4	1447.1
	Chatham	1314.4	1422.4	1002.5	1163.9	1265.5	1028.7
	D'Clute	253.5	202.8	283.5	223.4	209.6	265.2
	Doyles	0.0	0.0	0.0	0.0	0.0	0.0
	Morpeth	778.3	881.6	843.3	701.8	756.2	722.3
	Tilbury	7245.3	7916.8	8568.1	6817.9	6971.6	6044.2
	Wolfe	109.5	122.4	130.5	112.5	169.8	146.4
	Zone	1949.8	1808.5	1853.2	1971.1	1943.1	1752.2
Lambton	Avonry	0.0	0.0	0.0	0.0	0.0	0.0
	Becher East	771.5	545.2	314.9	0.0	14.6	0.0
	Becher West	1543.2	1335.6	1342.5	958.6	1066.2	1689.4
	Brigden	1568.8	1659.8	1317.3	1051.4	915.2	876.2
	Charlemont	6.0	179.1	202.2	135.9	97.2	134.9
	Colinville East	0.0	0.0	0.0	0.0	0.0	0.0
	Corunna	0.0	0.0	0.0	141.6	176.2	183.4
	Coveny	0.0	184.1	8064.5	3911.6	2505.7	902.1
	Cromar	1390.3	951.1	571.6	484.6	262.5	839.7
	Dawn 1	1060.1	657.6	628.1	735.0	583.7	971.3
	Dawn 1-27-VI	0.0	0.0	0.0	0.0	0.0	0.0
	Dawn 7-28-V	0.0	3316.9	5766.4	2685.8	3266.1	2444.3
	Dawn 5-29-IX	0.0	885.9	1358.0	1297.0	525.3	0.0
	Dawn 2-30-XIV	0.0	0.0	0.0	0.0	0.0	0.0
	Dawn 5-30-IV	0.0	453.8	34.8	155.5	353.4	339.2
	Dawn Miscellaneous	2136.2	2905.1	3840.2	2442.5	2602.8	2116.0
	Edys Mills	0.0	0.0	0.0	1756.3	2835.0	3838.9
	Edys Mills East	0.0	0.0	0.0	172.9	277.3	139.0
	Enniskillen 26	1.7	0.6	0.1	0.1	0.0	0.0
	Logierait	0.0	0.0	0.0	0.0	0.0	0.0
	Moore 5-6-III	0.0	0.0	0.0	0.0	0.0	0.0
	Moore 3-21-XII	81373.4	79762.8	98016.6	79671.2	61378.0	60946.0
	Moore 2-22-II	0.0	0.0	0.0	0.0	0.0	0.0
	Moore 7-27-VI	0.0	0.0	0.0	0.0	0.0	106.1

TABLE 17: CONTINUED.

COUNTY	POOL NAMES	1979 1000 m³	1980 1000 m³	1981 1000 m³	1982 1000 m³	1983 1000 m³	1984 1000 m³
Lambton (cont.)	Oil City	0.0	0.0	0.0	0.0	2587.2	6397.8
	Oil Springs East	22265.0	19148.0	10153.0	6218.0	5794.8	4310.2
	Otter Creek	946.0	785.4	346.9	433.8	1090.1	966.4
	Otter Creek East	139.7	474.6	471.4	441.3	605.1	484.6
	Sarnia 1-8-A	0.0	0.0	0.0	0.0	308.7	0.0
	Sombra 4-9-XII	0.0	0.0	384.2	1237.7	904.7	712.2
	Sombra 2-23-XII	0.0	0.0	0.0	0.0	0.0	0.0
Oxford	Brownsville	63.3	0.0	0.0	0.0	0.0	0.0
Lake Erie	Atlas	0.0	0.0	0.0	0.0	0.0	0.0
	D'Clute	2722.8	2144.4	1891.6	2655.9	877.3	2122.9
	Erieau	0.0	0.0	0.0	0.0	0.0	0.0
	Morpeth	0.0	47304.0	89008.4	94815.8	103197.8	85839.1
	Tilbury	16754.3	15684.1	14834.9	15977.1	15518.2	17902.2
	Subtotal - Salina/Guelph	148761.8	195683.2	259519.9	237570.9	227405.3	211613.6
	% of Ontario production	39.4	43.6	50.1	46.3	43.5	38.8
				ORDOVICIAN			
Kent	Dover	1450.7	3238.5	1319.8	1494.9	1209.4	1112.2
	Dover 7-5-V E	0.0	0.0	0.0	0.0	0.0	0.0
	Dover 7-10-VI E	0.0	297.4	44.6	47.3	112.4	103.4
Lambton	Sombra 3-26-VI	0.0	0.0	0.0	0.0	0.0	0.0
Wellington	Arthur	793.8	1476.8	1135.4	1267.9	1235.6	1181.5
	Subtotal - Ordovician	2244.5	5012.7	2499.8	2810.1	2557.4	2397.1
	% of Ontario production	0.6	1.1	0.5	0.5	0.5	0.4
				CAMBRIAN			
Kent	St. Patricks	0.0	0.0	0.0	0.0	0.0	0.0
Oxford	Blandford 3-7-VIII	0.0	0.0	0.0	0.0	0.0	0.0
	Innerkip	6316.5	6057.4	6394.1	7117.2	5809.3	5708.9
	Innerkip East	582.8	472.1	521.4	577.4	391.9	400.4
	Subtotal - Cambrian	6899.3	6529.5	6915.5	7694.6	6201.2	6109.3
	% of Ontario production	1.8	1.5	1.3	1.5	1.2	1.1
	Total production	377575.9	448903.9	517700.7	512662.5	522959.6	545009.4
		100.0	100.0	100.0	100.0	100.0	100.0

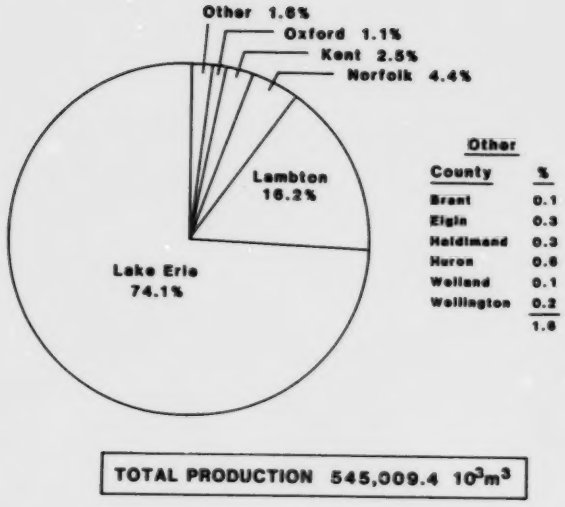


Figure 21. *Total Gas Production by Area, 1984.*

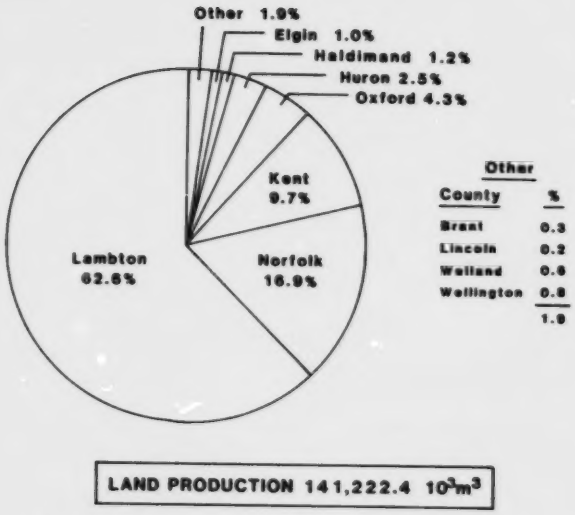


Figure 22. *Percentage Land Gas Production by County, 1984.*

TABLE 18: GAS PRODUCTION BY POOL, 1984.

County/ Pool Name	Active Wells	Production 1984 (1000 m^3)	Operator 1984
BRANT			
BRANT		407.4	HYSLOP
Subtotal	0	407.4	
% of Ontario production		0.1	
ELGIN			
ALDBOROUGH 4-20-VII	0	2.3	COATES
COWAL	2	291.9	UNION
TOWNLINE	9	1162.7	UNION
Subtotal	11	1456.9	
% of Ontario production		0.3	
HALDIMAND			
HALDIMAND	132	1660.1	FISHERVILLE, GLENFRED, MARR., WELLANDPORT
Subtotal	132	1660.1	
% of Ontario production		0.3	
HURON			
BAYFIELD	2	1525.9	TIPPERARY
TIPPERARY	2	1003.1	TIPPERARY
TIPPERARY SOUTH	2	936.5	TIPPERARY
Subtotal	6	3465.5	
% of Ontario production		0.6	
KENT			
BOTANY	2	1023.2	CAMERON
CAMDEN GORE	11	1447.1	UNION
CHATHAM	12	1028.7	YORK, UNION
DOVER	4	1112.2	UNION
DOVER 7-10-VI	1	103.4	JWK
D'CLUTE	1	265.2	UNION
MORPETH	8	722.3	PEGG
TILBURY	101	6044.2	UNION
WOLFE	1	146.4	BEDFORD
ZONE	27	1752.2	UNION
Subtotal	168	13644.9	
% of Ontario production		2.5	
LAMBTON			
BECHER WEST	25	1689.4	MURPHY
BRIGDEN	2	876.2	CONSUMERS'
CHARLEMONT	1	134.9	CAMERON
CORUNNA	2	183.4	ESSO
COVENY	1	902.1	UNION
CROMAR	1	839.7	FORBES
DAWN 1	7	971.3	UNION
DAWN 5-30-IV	2	339.2	UNION
DAWN 7-23-V	2	2444.3	UNION
DAWN MISCELLANEOUS	15	2116.0	COLONIAL, FORBES, UNION
EDYS MILLS	3	3838.9	RAM
EDYS MILLS EAST	1	139.0	RAM
MOORE 3-21-XII	3	60946.0	DOW
MOORE 7-27-VI	1	106.1	CONSUMERS'
OIL CITY	2	6397.8	UNION
OIL SPRINGS EAST	1	4310.2	TALCORP
OTTER CREEK	4	966.4	RAM, CAMERON
OTTER CREEK EAST	3	484.6	BRETT
SOMBRA 4-9-XII	1	712.2	S.W. PET
Subtotal	77	88397.7	
% of Ontario production		16.2	

TABLE 18: CONTINUED.

County/ Pool Name	Active Wells	Production 1984 (1000 m^3)	Operator 1984
LINCOLN			
LINCOLN	11	276.6	CONSUMERS'
Subtotal	11	276.6	
% of Ontario production		0.1	
NORFOLK			
HEMLOCK	5	724.5	HEMLOCK
NORFOLK	167	19547.2	BAYVIEW, CHATHAM, COLONIAL, CONSUMERS', CRAVEN, EXPLORER, FREEMAN, HOUGHTON, METALORE, MORRISON, STUYT
VENISON CREEK	14	3567.8	EXPLORER
Subtotal	186	23839.5	
% of Ontario production		4.4	
OXFORD			
INNERKIP	4	5708.9	AMERACRUDE, NITH
INNERKIP EAST	1	400.4	AMERACRUDE
Subtotal	5	6109.3	
% of Ontario production		1.1	
WELLAND			
WELLAND	114	783.0	CONSUMERS'. FOX, LINCOLN, PET., RUCH, SIMON, WELLANDPORT WILVOYD
Subtotal	114	783.0	
% of Ontario production		0.1	
WELLINGTON			
ARTHUR	3	1181.5	KENARTHA
Subtotal	3	1181.5	
% of Ontario production		0.2	
Total Onshore Production	713	141222.4	
% of Ontario production		25.9	
LAKE ERIE			
CLEAR CREEK	66	48429.5	CONSUMERS'
D'CLUTE	0	2122.9	CWP, MIT., PLACE
DOVER	10	16243.0	CWP, PEMBINA
LEEPFROG	0	4345.5	CONSUMERS'
MAITLAND	210	140992.1	MIT., PLACE, PEMBINA
MORPETH	26	85839.1	CONSUMERS'
SELKIRK	0	13049.0	MIT., PLACE
SILVER CREEK	60	74863.7	CONSUMERS'
TILBURY	71	17902.2	CWP
Total Production Lake Erie	443	403787.0	
% of Ontario production		74.1	
Total Gas Production	1156	545009.4	

5. SOURCES OF PRODUCTION AND RESERVOIR DATA IN ONTARIO

The production tables included in this report were compiled utilizing a variety of sources including previous Annual Reports, Oil and Gas Papers, and Open File Reports prepared by Bailey and Cochrane (1984 a, b, 1985, 1986). OFR 5578 contains detailed description of the various sources of data available and the problems one encounters when attempting to assemble a production history for any particular pool. The entire section is reprinted here as it is a valuable aid to anyone utilizing production data available in files of the Petroleum Resources Section, Ministry of Natural Resources.

"As a condition for the receipt or renewal of a licence to produce oil and gas in Ontario, the Ontaro Ministry of Natural Resources (OMNR) requires the operator to submit annually a tabulation of the oil and gas produced by well and by field for the previous year; OMNR Form 109 is used for gas and Form 108 for oil production. the OMNR also receives annual records of gas purchases by the utilities, primarily, Union Gas Ltd. and Consumers' Gas Co.; and records of oil purchases from the refiners, primarily, Imperial Oil Ltd.

This information is the basis for the production figures published annually by the OMNR in the "Oil and Gas Exploration, Drilling and Production Summary". The annual summary lists the annual production by field, the shut–in pressure for gas wells, the well status, and the annual production for four previous years. The data is generally of good quality and can be used for the construction of pool decline curves.

If more detailed data is required, the Forms 108 and 109 can be reviewed at the OMNR Regional Office on 659 Exeter Road, London, Ontario. Production data can also be found in pool studies submitted by operators to support applications for waterflooding or unitization. In addition, some pool studies and production records have been published in various geological journals.

Details on the initial completion of a well are submitted by the operators on OMNR Form 107, but records of recompletions and workovers are not usually found in the Ministry files. Reservoir data is usually found in pool studies submitted by operators for unitization and waterflooding operations. The OMNR has a good record of crude oil analyses, gas analyses, core analyses, drill stem test data and electrical logs. Unless the field is undergoing secondary recovery, the OMNR has no record of the quantity of water produced in association with the hydrocarbons. When a field is being waterflooded, the operator makes an annual report of the amount of water used during the year and the injection pressures. All data submitted by operators is held in the confidential files for one year.

The format of the reports completed by the operators for submission to the Ministry has changed over the years. The OMNR has records of operator's submissions for gas wells back to the year 1943 and has records for oil wells back to 1954. Although there is some gas production data submitted by operators for previous years, the first year of continuous reporting in the OMNR files is 1943. From 1943 to 1953, the form used by the operators was called "Report of Mineral Production for the use of the Ontario Department of Mines, Toronto and the Dominion Bureau of Statistics, Ottawa". Unfortunately, on this form, the gas producer did not describe the actual location of the wells in any more detail than by county and township.

In the period 1954 to 1959, the form became "Form 15, Ontario Fuel Board Act, 1954, Annual Report by Person Producing, Storing, Transmit-

ting or Distributing Natural Gas". The form evolved into "Ontario Department of Energy Resources Form 503" in the period 1960 to 1963, and the "Energy Act 1964 Form 401" from, 1964 to 1966. In 1967 the form was revised once again and, in 1968, it became the Form 109 which is still in use at this time.

For oil production, the first year of continuous reporting is 1954, and from that year to 1959, the form was called "Form 14 Ontario Fuel Board Act". It became "Form 502 Ontario Department of Energy Resources" from 1960 to 1963 and then "Form 108 Energy Act 1964" from 1964 to 1966. Form 108 was revised in 1967 and is presently in use at this time, although conversion to metric units became effective in 1979.

Some comments of the data quality are warranted. Production data derived from various sources always contains discrepancies. In the case of oil production, some operators provide pool production data while others provide sales data or a mixture of both. The oil purchaser reports the quantity of oil received at his teminal but actually pays for that quantity of oil reduced by a factor to account for the basic sediments and water content. Other than an annoyance factor, the differences in production data arising from these cause some problems in reserve estimates for marginal wells, especially if large quantities of water are being produced.

In the case of gas production data, discrepancies occur mainly because of the different pressure bases used in the gas purchase contracts. Also, if the operator and the purchaser meter the gas separately, there is invariably a difference in the measurements. In cases where one operator produces gas from a number of wells, either in the same pool or from separate pools, the gas production is occasionally commingled and it is difficult to determine the quantity of gas produced by each well or pool. Pressure data for gas wells is usually measured at the wellhead and must be used cautiously whenever fluid could be contained in the well bore.

Typing errors, misprints and misinterpretations of the type of data requested are common in Forms 108 and 109; it is obvious that some of the forms were completed by persons not familiar with oil and gas production.

If a pool has not been unitized or was unitized after a period of production, it becomes a challenge to assemble all of the production data submitted by the various operators, correlate it and combine it into the field cumulative. The problem is compounded when one operator sells all or part of his interest to another party. Willey Pool, Elgin County, was such a case. The published production data was broken down into its components and then reassembled to result in the appearance of production data for four smaller pools, separated from the main Willey Pool.

The oil industry originated in southwestern Ontario, and as a result, the production information for the older fields is not always available or reliable. Some of this production data is published in technical papers but the best data source for the older fields is the OMNR Annual Natural Gas and Petroleum Reports. Most of the data in these reports must be accepted at face value because of the absence of supporting documents. When two sources of published information conflict, judgement must be used in selecting the appropriate data to be used for reserve calculations."

VII. Natural Gas Storage

Fifteen of the eighteen designated gas storage pools were in operation in 1984.

Total gas storage working capacity when delta pressured in 1984 was 6012 10^3m^3.

Lambton County remained the centre for gas storage operations, with all but one of the active pools contained within its boundaries (Table 19).

TABLE 19: 1984 GAS STORAGE SUMMARY REPORT.

Reservoir	Zone 1	Status	Operator	Working Capacity At Original Reservoir Pressure 10^6m^3	Original Reservoir Pressure kPa	Working Capacity When Delta Pressured 10^6m^3	Reservoir Pressure When Delta Pressured kPa
Bentpath	G, A1	Active	Union	98.5	5981	183.0	6916
Bickford	G, A1	Active	Union	362.4	6398	668.1	7612
Corunna	G, A1	Active	Tecumseh	99.1	6502	138.8	7964
Crowland	Whirlpool	Active	Cons.	11.3	3447	14.2	4330
Dawn 156	G, A1	Active	Union	490.2	6047	870.5	6757
Dawn 167	G, A1	Active	Union	89.6	6247	200.9	6592
Dawn 47-49	G, A1	Active	Union	89.6	5964	260.5	6757
Dawn 59-85	G, A1,A2	Active	Union	104.8	5964	260.5	6757
Ennskillen 28	G	Inactive	Union	47.6	5288	115.6	7819
Kimball-Colin	G, A1	Active	Tecumseh	841.3	6336	1019.8	7964
Payne	G, A1	Active	Union	348.1	6047	814.0	8619
Rosedale	G, A1	Active	Union	66.9	6460	109.6	6957
Seckerton	G, A1	Active	Tecumseh	255.0	6481	320.1	7964
Sombra	G, A1	Inactive	Union	48.8	6467	71.2	7612
Terminus	G, A1	Active	Union	205.2	6109	366.7	6757
Waubuno	G, A1	Active	Union	162.6	6419	260.6	6757
Wilkesport	G, A1	Active	Tecumseh	165.4	6378	192.6	7929
Zone	A1, A2	Inactive	Union	101.9	4971	146.1	7129

1. G = Guelph, A1 = A1 Carbonate, A2 = A2 Carbonate

VIII. Salt Cavern Storage

Table 20 provides a summary of salt cavern storage operations in southwestern Ontario. Statistics were compiled from a survey of the companies involved by the Petroleum Resources Section.

TABLE 20: SALT CAVERN STORAGE.

Company Name	Cavern Number	Capacity (m^3)	Contents
Dome Petroleum Ltd. Sarnia	RP-1	19 237	NGL mix
	RP-2	20 350	NGL mix
	RP-3	28 618	NGL mix
	RP-4	58 825	NGL mix
	RP-5	32 751	NGL mix
	RP-6	50 240	NGL mix
	RP-7	63 595	NGL mix
	P-1	42 132	Spec LPG
	P-2	47 696	Spec LPG
	P-3	52 466	Spec LPG
	P-4	51 670	Spec LPG
	P-5	49 286	Spec LPG
	P-6	49 922	Spec LPG
	P-7	48 491	Spec LPG
	P-8	36 408	Spec LPG
	B-1	68 683	Spec LPG
	B-2	21 781	Spec LPG
	B-3	62 959	Spec LPG
	B-4	35 772	Spec LPG
Dow Chemical Canada	7	21 900	
	8	28 400	
	11	15 400	
	12	22 500	
	HC-1	42 340	Ethylene
	HC-2	9 197	Oil
	HC-3	58 673	Ethylene
	HC-4	44 243	Ethylene
	HC-5	36 155	Ethylene
	HC-6	31 239	Ethylene
	HC-7	27 275	Brine
	HC-8	19 188	Propylene
	HC-9	1 110	Brine
	HC-10	1 427	Brine
	HC-11	16	Brine
	HC-12	32	Brine
	41-42	396 438	Brine
	43-44	317 150	Brine
	45-46	158 575	Brine
	47-48	555 013	Brine
	49-50	81 032	Ethylene
	51-52	98 792	Ethylene
	53-54	269 578	Brine
	55	30 605	Brine
	56	68 187	Butane

TABLE 20: CONTINUED.

Company Name	Cavern Number	Capacity (m^3)	Contents
Dow Chemical Canada	57-58	199 805	Brine
	59-60	412 296	Propane
	61	34 094	Brine
	62	36 472	Brine
	63-64	3 172	Brine
	65-66	12 686	Brine
	67-68	15 858	Brine
	69	3 172	Brine
	70	5 550	Brine
	71-7 2	5 550	Brine
	75		Brine
	76		Brine
	81		Brine
	82	1 427	Brine
Imperial Oil Ltd.	C-982	39 747	Propane
-Esso Petroleum	C-981	28 618	Slop
-Esso Chemical	C-985	20 668	Butane
	C-4040	33 387	Empty
	C-4043	41 337	n-Butane
	C-4044	34 977	Propane
	C-983	31 797	Fuel gas
	C-4041	21 463	Propylene
	C-4042	38 316	Ethylene
Petrosar	1	39 680	Ethylene
	2	42 320	Ethylene
	3	17 460	Fuel gas
	4	32 960	Propylene
	5	13 490	Propane
Polysar Ltd.	1	31 000	Propane
	2	17 000	Propane
	3	17 200	Propane
	4	16 700	Propane
	5	21 400	Isobutylene
	7	12 600	Propane
Shell Canada Ltd.	W1	33 390	Butane
	W2	19 080	Iso-Butane
	W3	15 900	Propane/Propylene
	W4	8 750	Propylene
Sun Oil Ltd.	3	22 894	Pentanes
	4	18 919	Propane
	5	25 438	Butane
	7	8 585	Butane/Butylene
	8	16 852	Butane
	9	36 090	Inactive
	10	16 217	Empty
	13	14 547	LPG
	14	16 025	Iso-Butane
	13	14 547	LPG

IX. References

Bailey Geological Services Ltd. and R.O. Cochrane, 1984a, Evaluation of the conventional and potential oil and gas reserves of the Ordovician of Ontario: Ontario Geological Survey Open File Report 5498, 77p.

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Bailey Geological Services Ltd. and R.O. Cochrane, 1985, Evaluation of the conventional and potential oil and gas reserves of the Devonian of Ontario: Ontario Geological Survey Open File Report 5555, 178p.

Bailey Geological Services Ltd. and R.O. Cochrane, 1986, Evaluation of the conventional and potential oil and gas reserves of the Silurian sandstone reservoirs of Ontario: Ontario Geological Survey Open File Report 5578, 275p.

Trevail, R.A., and Parker, Debra K., 1984. Oil and gas development in eastern Canada in 1983. American Association of Petroleum Geologists Bulletin, 68, pp. 1281-1296.

Appendix I.
Licenses Issued In 1984

TABLE I.1: PERSONS LICENCED TO CONDUCT GEOPHYSICAL OR GEOCHEMICAL EXPLORATION FOR OIL OR GAS 1984.

Licensee	City	Province/ State	Licence #
Bedford Petroleums Limited	Calgary	Alberta	016
Blackwell Petroleum Services Ltd.	London	Ontario	015
Bluewater Oil and Gas Limited	Calgary	Alberta	004
Camel Oil and Gas Limited	Calgary	Alberta	003
Canadian Occidental Petroleum Ltd.	Calgary	Alberta	014
Cangeo Limited	Oil Springs	Ontario	002
Chatham, W.T. P. Eng.	Hamilton	Ontario	008
Chemical Projects Limited	Rexdale	Ontario	034
Cochrane, Robert O.	London	Ontario	020
Consolidated West Petroleum Limited	Port Colborne	Ontario	019
Denison Mines Limited	Calgary	Alberta	035
Devran Petroleums Limited	London	Ontario	017
Dome Petroleum Limited	Calgary	Alberta	007
E.P. Rowe Oil Limited	London	Ontario	009
Elexco Limited	London	Ontario	024
Explorer Petroleum Corp.	Calgary	Alberta	006
Fitzgerald, Norman D.	Abilene	Texas	023
GraviMetrics Inc.	Tulsa	Oklahoma	022
Indian Minerals (East) Directorate	Toronto	Ontario	021
JMCD Energy Exploration Ltd.	Brantford	Ontario	028
Kelly, David A.	Brampton	Ontario	005
Klenk, William C. III	Manitowaning	Ontario	012
Mid Eastern Oil & Gas Limited	London	Ontario	027
Milton Resources Limited	London	Ontario	011
Mitchell Energy Corporation	Port Dover	Ontario	010
Pembina Exploration Co. Ltd.	Port Colborne	Ontario	026
Pounder, Harmon & Hill Inc.	London	Ontario	025
Ram Petroleums Limited	Toronto	Ontario	032
Seis-Ex Geophysical Limited	S.W. Calgary	Alberta	030
Shell Canada Resources Limited	Calgary	Alberta	033
Spelman Prentice	Casper	Wyoming	013
Springs Drilling Limited	Oil Springs	Ontario	036
Strathburn Petroleum Limited	London	Ontario	029
The Consumers' Gas Co. Ltd.	Scarborough	Ontario	018
Union Gas Limited	Chatham	Ontario	031
W.T. Chatham & Associates Ltd.	London	Ontario	001

TABLE I.2: PERSONS LICENCED TO LEASE OIL OR GAS RIGHTS, 1984.

Licensee	City	Province/ State	Licence #
398311 Ontario Limited	Corunna	Ontario	058
A.I.S. Resources Limited	Montreal	Quebec	008
Atlas Oil and Gas Limited	Scarborough	Ontario	002
Bailey Geological Services Ltd.	St. Mary's	Ontario	003
Barnes, Joyce	Oil Springs	Ontario	159
Barnes, Kenneth	Oil Springs	Ontario	004
Baxley, Wilbur F.	Rodney	Ontario	158
Bayview Explorations Limited	St. Williams	Ontario	059
Beach, P.J.	St. Catharines	Ontario	005
Bear Creek Resources Limited	Toronto	Ontario	006
Beech Lanes Explorations	St. Williams	Ontario	165
Blackwell Petroleum Services Ltd.	London	Ontario	060
Bluewater Oil & Gas Limited	Calgary	Alberta	007
Bogaert, H.P.	Brigden	Ontario	064
Bogaert, Michael P.	Brigden	Ontario	012
Bonhomme, J.C.	Toronto	Ontario	063
Bourassa, Robert J.	London	Ontario	062
Bowes, Paul	London	Ontario	146
Boyce, Paul F.	London	Ontario	061
Boychuk, Leonard J.	Chatham	Ontario	068
Brett, Douglas J.	Lambeh	Ontario	150
Burgess, Bryan D.	Chatham	Ontario	067
Burt, Ross	Orangeville	Ontario	066
C.G. Oil Exploration Inc.	Mt. Brydges	Ontario	154
Calder, Brian	Cambridge	Ontario	010
Caley, Thomas G.	Metamora	Michigan	065
Cambrian Disposals Limited	Chatham	Ontario	072
Camel Oil & Gas Limited	Calgary	Alberta	009
Cameron Petroleums Limited	Lambeth	Ontario	016
Campbell, Keith	Merlin	Ontario	034
Canacrude Limited	Toronto	Ontario	071
Canadian Occidental Petroleum Ltd.	Calgary	Alberta	070
Carnegie, David	Chatham	Ontario	069
Chatham, W.T. P.Eng.	Hamilton	Ontario	014
Chivers, John S.	London	Ontario	076
Clarysse, Roger	Simcoe	Ontario	075
Cochrane, Robert O.	London	Ontario	074
Coldicott, W.J.	Scarborough	Ontario	013
Colonial Petroleums Limited	Chatham	Ontario	073
Consolidated West Petroleums Limited	Port Colborne	Ontario	080
Coppens, Gerald M.	Langton	Ontario	018
Corden, Bruce P. Eng.	St. Clair	Michigan	019
Craven Oil Company Limited	Chatham	Ontario	079
Dawn Petroleums	Brigden	Ontario	017
Day, R.M.	Chatham	Ontario	077
Dean, Robert B	Wainfleet	Ontario	157
Dekker, Clarence	Chatham	Ontario	084
Denison Mines Limited	Calgary	Alberta	164
Devran Petroleums Limited	London	Ontario	023
Dome Petroleum Limited	Calgary	Alberta	024
Dow Chemical of Canada Ltd.	Bayfield	Ontario	022
Dustan, J,	Scarborough	Ontario	021
Easton, Douglas	Exeter	Ontario	153
Elexco Limited	London	Ontario	083
Emerson, H.	Dunnville	Ontario	082
Esso Resources Canada Ltd.	Blenheim	Ontario	087
Evon, Christine	Mt. Brydges	Ontario	155
Ewing, Dean	Wallaceburg	Ontario	088

TABLE I.2: CONTINUED.

Licensee	City	Province/ State	Licence #
Fast Petroleum	Niagara-on-the Lake	Ontario	086
Filipetti, Terry M.	London	Ontario	028
Fitzgerald, Norman D.	Abilene	Texas	085
Fontyn, Gerald H.	London	Ontario	092
Fox, E.S,	Welland	Ontario	091
Francisco Petroleum Enterprises Inc.	Chatham	Ontario	027
Fraser, C.Douglas	Lambeth	Ontario	090
French, Bradley W.	Chatham	Ontario	089
Furgiuele, W.	Scarborough	Ontario	026
Gaiswinkler Enterprises Ltd.	Chatham	Ontario	096
Gaiswinkler, L.F.	Chatham	Ontario	100
Glenfred Gas Wells Limited	Jarvis	Ontario	095
Golden Hubris Inc.	Toronto	Ontario	166
Grimes, Barry	London	Ontario	094
H. Brett and Associate Limited	Lambeth	Ontario	011
Hadley Resources Limited	London	Ontario	093
Haldimand Gas & Oil Wells Ltd.	Cayuga	Ontario	156
Hall, Leslie	Brigden	Ontario	025
Hannam, Wayne R.S.	Sarnia	Ontario	032
Herlufsen, Bent E.	London	Ontario	099
Herman, L.T.	Streetsville	Ontario	147
Inwood, R.	Scarborough	Ontario	031
J.E.English General Drilling & Well Service	Port Lambton	Ontario	081
JMCD Energy Exploration Ltd.	Brantford	Ontario	097
Jeffery, S.J.	London	Ontario	098
Johnson, R.D.	London	Ontario	104
Jonckheere, George	Langton	Ontario	103
K.E.Crawford Limited	Chatham	Ontario	078
Kelly, David A.	Brampton	Ontario	102
Kenartha Oil & Gas Co. Ltd.	Markham	Ontario	101
Kingdon, Ron	Thedford	Ontario	030
Klenk, William C. III	Manitowaning	Ontario	029
Kovacs, John L.	Langton	Ontario	108
Kriter, Robert E.	Lambeth	Ontario	141
Kruizenga, John G.	London	Ontario	107
Lancaster, Joe	Scarborough	Ontario	036
Langstaff, R.	Scarborough	Ontario	035
Ledgley, David D.	London	Ontario	106
MPB Oil Limited	Brigden	Ontario	033
Malo, J.	Chatham	Ontario	105
Mann, Robert E.	Simcoe	Ontario	112
McKenzie, D.Ian	Waterloo	Ontario	109
McKenzie, D.F.	Sarnia	Ontario	110
McKenzie Dr. Garry D.	Columbus	Ohio	111
McLachlin, D.A.	Wallaceburg	Ontario	040
McVittie, J.N.	Georgetown	Ontario	160
Michigan Oil Company	Jackson	Michigan	116
Mid Eastern Oil & Gas Limited	London	Ontario	115
Milton Resources Limited	London	Ontario	039
Mitchell Energy Corporation	Port Dover	Ontario	038
Mitchell, David G.	Vittoria	Ontario	037
Mitchell, Philip	London	Ontario	114
Moore, Bert	Markham	Ontario	113
Morrison, Robert J.	Langton	Ontario	120
Murphy Oil Co. Ltd.	Calgary	Alberta	119

TABLE I.2: CONTINUED.

Licensee	City	Province/ State	Licence #
Newport, Lorne R.	Wardsville	Ontario	118
Noble, William G.	Oil City	Ontario	161
Norman, J.L.	London	Ontario	117
Oxford-Elgin Gas & Oil	Springfield	Ontario	144
Pan Canadian Petroleums Ltd.	Calgary	Alberta	124
Pembina Exploration Co. Lt	Port Colborne	Ontario	123
Petro-Canada Exploration Inc.	Calgary	Alberta	122
Pinetree Exploration Limited	Chatham	Ontario	044
Place Gas & Oil Co. Ltd.	Toronto	Ontario	043
Pounder Harmon & Hill Inc.	London	Ontario	121
Proto Resources Limired	Petrolia	Ontario	162
Putman, Patricia S.	Sarnia	Ontario	128
R.G.Bryant Energy Associates Inc.	London	Ontario	163
Ram Petroleums Limited	Toronto	Ontario	127
Rawlings Drilling Co. Ltd.	Chatham	Ontario	042
Rawlings, F.S.	Chatham	Ontario	041
Rayment, Oliver B.	Chatham	Ontario	148
Realoil Enterprises Limited	Chatham	Ontario	126
Richards, G.W.	London	Ontario	048
Rife, K.C.	Cambridge	Ontario	140
Ron Smith Well Drilling Ltd.	Denfield	Ontario	052
Rowe, J.M.	London	Ontario	047
Rowe, Peter E.	London	Ontario	046
S.J. Atkinson & Son Drilling	Petrolia	Ontario	142
Seis-Ex Geophysical Limited	S.W.Calgary	Alberta	143
Shackleton, Alvin G.	Chatham	Ontario	125
Shawnee Petroleums Limited	Toronto	Ontario	132
Shea, Don	Watford	Ontario	145
Shell Canada Resources Limited	Calgary	Alberta	152
Shirley, Robert D.	Orangeville	Ontario	139
Sidawa Petroleums Limited	Kitchener	Ontario	045
Spelman Prentice	Casper	Wyoming	051
Springs Drilling Limited	Oil Springs	Ontario	057
Stanley Reef Resources Limited	Toronto	Ontario	131
Stevenson, Charles G.	Dresden	Ontario	149
Strathburn Petroleum Limited	London	Ontario	130
Sunburst Oil Company	Lambeth	Ontario	050
Talcorp Services Limited	Toronto	Ontario	151
Tecumseh Gas Storage Limited	Scarborough	Ontario	049
The Consumers' Gas Co. Ltd.	Scarborough	Ontario	020
Thibodeau, Leo J.	Windsor	Ontario	129
Thomas Douglas	Port Elgin	Ontario	136
Tkach, Walter J.	Scarborough	Ontario	056
Tundra Exploration Limited	Calgary	Alberta	135
Union Gas Limited	Chatham	Ontario	134
Universal Explorations (83) Ltd.	Calgary	Alberta	055
W.T.Chatham Associates Ltd.	London	Ontario	015
Wellandport Gas Company	Dunnville	Ontario	133
Wilson, Alexander D.	London	Ontario	054
Wilton, B.	Scarborough	Ontario	053
Wilton, Harold R.	Blenheim	Ontario	137
Woodcock, P.	Chatham	Ontario	138

TABLE I.3: OWNERS OF LICENCED MACHINES FOR BORING, DRILLING, DEEPENING OR PLUGGING WELLS, 1984.

Licensee	City	Province/ State	Licence #
AFCO Construction	Fort Erie	Ontario	056
AFCO Construction	Fort Erie	Ontario	057
AFCO Construction	Fort Erie	Ontario	058
Ashburn, Harvey W.	Dresden	Ontario	024
Ashburn, Harvey W.	Dresden	Ontario	064
Bear Creek Resources Limited	Toronto	Ontario	002
Bothwell Drilling & Servicing	Bothwell	Ontario	003
Bothwell Drilling & Servicing	Bothwell	Ontario	004
C.G. Oil Exploration Inc.	Mt. Brydges	Ontario	063
Casselman, Ramon H.	Williamsburg	Ontario	022
Charles Shaw Drilling Ltd.	Florence	Ontario	046
Charles Shaw Drilling Ltd.	Florence	Ontario	047
Charles Shaw Drilling Ltd.	Florence	Ontario	048
Charles Shaw Drilling Ltd.	Florence	Ontario	049
Corunna Petroleums Limited	Corunna	Ontario	021
D.S.I.L. Drilling Inc.	Scarborough	Ontario	028
Davidson Well Drilling Limited	Wingham	Ontario	027
Degrow, Leland M.	York	Ontario	026
Elgin Mitchell & Sons	Simcoe	Ontario	005
Elgin Mitchell & Sons	Simcoe	Ontario	009
Elgin Mitchell & Sons	Simcoe	Ontario	010
Elgin Mitchell & Sons	Simcoe	Ontario	011
Faulkner Well Drilling	Peterborough	Ontario	001
Ford, Harvey	Sarnia	Ontario	032
Hopper Durl Limited	Seaforth	Ontario	030
Hopper Durl Limited	Seaforth	Ontario	031
International Water Supply Ltd.	Barrie	Ontario	008
J.E. English General Drilling & Well Service	Port Lambton	Ontario	025
James Newport Drilling Limited	Oil Springs	Ontario	033
James Newport Drilling Limited	Oil Springs	Ontario	034
Kingdon, Ron	Thedford	Ontario	007
Longyear Canada Inc.	North Bay	Ontario	029
Longyear Canada Inc.	North Bay	Ontario	036
Longyear Canada Incorporated	Concord	Ontario	006
Lorne T. Newport	Wardsville	Ontario	038
Marsh, Tom	Bothwell	Ontario	062
McLaughlin Drilling Limited	Corunna	Ontario	065
Montgomery Bros.	Selkirk	Ontario	035
Murray Rose Drilling Inc.	Port Rowan	Ontario	041
Murray Rose Drilling Inc.	Port Rowan	Ontario	042
Murray Rose Drilling Inc.	Port Rowan	Ontario	061
Newport, Lorne T.	Wardsville	Ontario	037
Pembina Exploration Co. Ltd.	Port Colborne	Ontario	043
Pembina Exploration Co. Ltd.	Port Colborne	Ontario	044
Place Gas & Oil Co. Ltd.	Toronto	Ontario	012
Place Gas & Oil Co. Ltd.	Toronto	Ontario	013
Rawlings Drilling Co. Ltd.	Chatham	Ontario	014
Rawlings Drilling Co. Ltd.	Chatham	Ontario	015
Rawlings Drilling Co. Ltd.	Chatham	Ontario	016
Rawlings Drilling Co. Ltd.	Chatham	Ontario	017
Rawlings Drilling Co. Ltd.	Chatham	Ontario	018

TABLE I.3: CONTINUED.

Licensee	City	Province/ State	Licence #
Ron Smith Well Drilling Ltd.	Denfield	Ontario	019
Ron Smith Well Drilling Ltd.	Denfield	Ontario	020
Ron Smith Well Drilling Ltd.	Denfield	Ontario	066
Rose, Charles	Port Rowan	Ontario	045
S.J. Atkinson & Son Drilling	Petrolia	Ontario	023
Stevenson, Charles G.	Dresden	Ontario	059
Stevenson, Charles G.	Dresden	Ontario	060
Underwater Gas Developers Ltd.	Port Colborne	Ontario	050
Underwater Gas Developers Ltd.	Port Colborne	Ontario	051
Underwater Gas Developers Ltd.	Port Colborne	Ontario	052
Underwater Gas Developers Ltd.	Port Colborne	Ontario	053
Union Gas Limited	Chatham	Ontario	054
W.G. Water Wells Limited	Dresden	Ontario	055
Wellington Newport & Sons Ltd.	Wardsville	Ontario	039
Wellington Newport & Sons Ltd.	Wardsville	Ontario	040

TABLE I.4: PERSONS LICENCED TO PRODUCE OIL OR GAS, 1984.

Licensee	City	Province/ State	Licence #
398311 Ontario Limited	Corunna	Ontario	042
490960 Ontario Limited	Sarnia	Ontario	130
A.I.S. Resources Limited	Montreal	Quebec	001
Ameracrude International Inc.	Toronto	Ontario	.002
Annett, Robert	Bothwell	Ontario	003
Ashburn, Richard D.	Bothwell	Ontario	134
Ayrheart, Ellwood J.	Oil Springs	Ontario	043
Ayrheart, Orval & Irene	Petrolia	Ontario	044
Ayrheart, Roy	Petrolia	Ontario	048
Bailey Geological Services Ltd.	St. Mary's	Ontario	004
Baldwin, David L.	Sarnia	Ontario	125
Barnes, Lonnie	Oil Springs	Ontario	047
Bayview Explorations Limited	St. Williams	Ontario	046
Bear Creek Resources Limited	Toronto	Ontario	008
Bedford Petroleums Limited	Calgary	Alberta	045
Bender, Harold	Petrolia	Ontario	007
Blackwell Petroleums Services Ltd.	London	Ontario	052
Bluewater Oil & Gas Limited	Calgary	Alberta	006
Bradley, Murray	Petrolia	Ontario	005
Brand, Walt	Petrolia	Ontario	051
Brookwood Oils Inc.	Tillsonburg	Ontario	119
Byers, I.	Oil Springs	Ontario	010
Camel Oil & Gas Limited	Calgary	Alberta	009
Cameron Petroleums Limited	Lambeth	Ontario	016
Canacrude Limited	Toronto	Ontario	050
Canadian Occidental Petroleum Ltd.	Calgary	Alberta	049
Cartier Resources Inc.	Toronto	Ontario	056
Charles Fairbank Oil Prop.	Petrolia	Ontario	055
Chatham, W.T. P.Eng.	Hamilton	Ontario	014
Colonial Petroleums Limited	Chatham	Ontario	054
Comfort, N.E.	Chatham	Ontario	053
Consolidated West Petroleums Limited	Port Colborne	Ontario	060
Corden, Bruce P. Eng.	St. Clair	Michigan	013
Craven Oil Company Limited	Chatham	Ontario	058
Crich Holdings & Buildings Ltd.	London	Ontario	127
D.W.Matheson Electric Ltd.	Oil Springs	Ontario	082
Dawn Petroleums	Brigden	Ontario	020
Den-Mar Brines Limited	Bothwell	Ontario	064
Devran Petroleums Limited	London	Ontario	121
Dome Petroleum Ltd.	Sarnia	Ontario	063
Donald, Albert B. & Mothersbough, H.	Oil Springs	Ontario	090
Dow Chemical Canada Inc.	Sarnia	Ontario	062
Dutton Resources Limited	Toronto	Ontario	061
E.P. Rowe Oil Limited	London	Ontario	031
Edward, R.A.	Petrolia	Ontario	068
Esso Resources Canada Ltd.	Blenheim	Ontario	067
Explorer Petroleum Corp.	Calgary	Alberta	019
Farrants, Robert A	Thamesville	Ontario	018
Fisherville Gas Limited	Simcoe	Ontario	017
Fitzgerald, Norman D.	Abilene	Texas	066
Forbes Resources Inc.	Tillsonburg	Ontario	065
Fox, E.S.	Welland	Ontario	072
Francisco Petroleum Enterprises Inc.	Chatham	Ontario	024
Freeman, Donald G.	Port Rowan	Ontario	023
Gaiswinkler Enterprises Ltd.	Chatham	Ontario	071
George Hyslop Limited	Ohsweken	Ontario	076
Glencoe Waterflood Inc.	Glencoe	Ontario	132
Glenerd Limited	Simcoe	Ontario	124

TABLE I.4: CONTINUED.

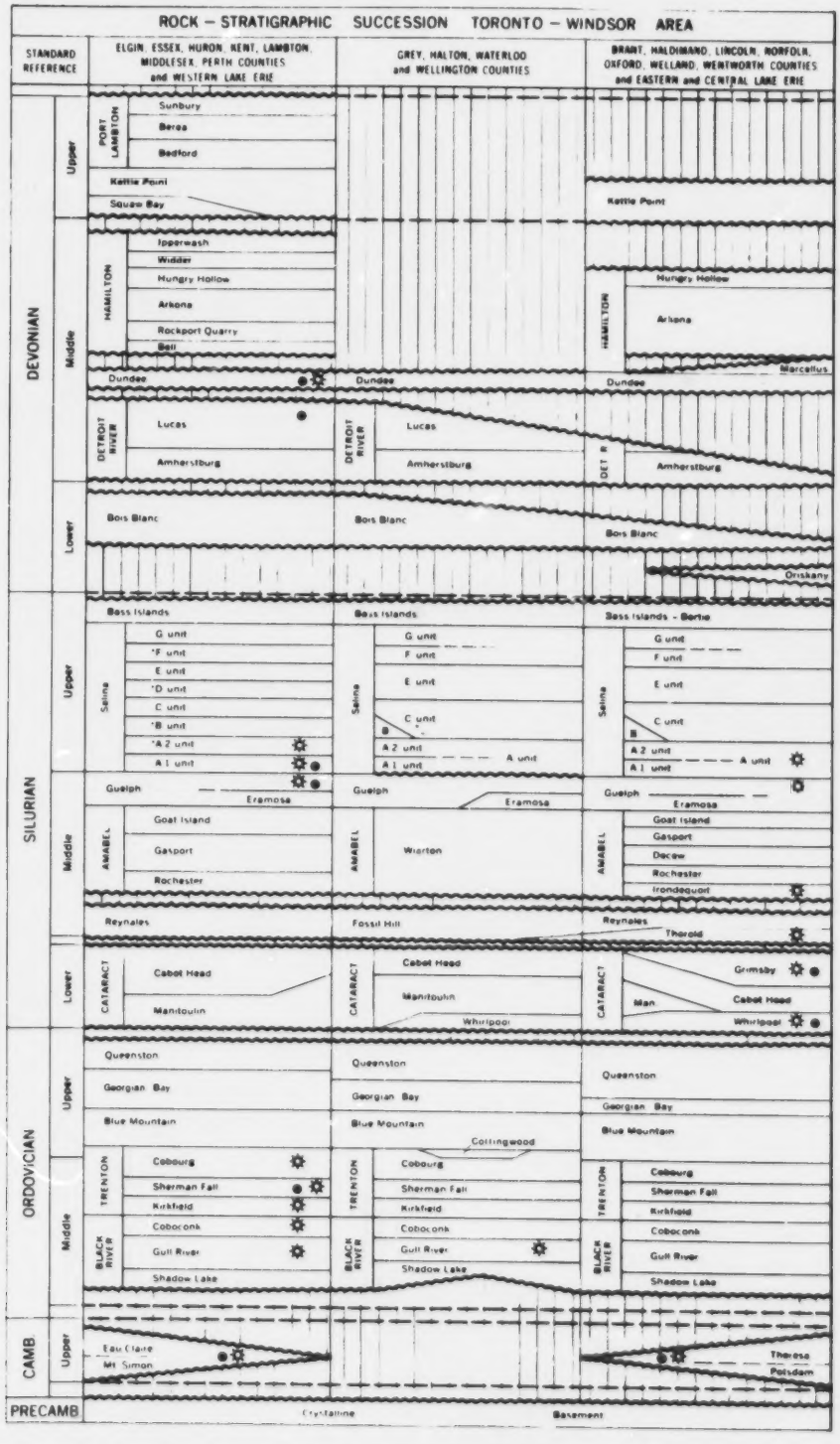
Licensee	City	Province/ State	Licence #
Glenfred Gas Wells Limited	Jarvis	Ontario	070
Golden Hubris Inc.	Toronto	Ontario	129
H.Brett & Associates Limited	Lambeth	Ontario	012
Haldimand Gas & Oil Wells Ltd.	Cayuga	Ontario	123
Hemlock Explorations Limited	Langton	Ontario	069
Herman, L.T.	Streetsville	Ontario	122
Houghton Explorations	Langton	Ontario	075
J.W.K. Administration & Associates Ltd.	Brantford	Ontario	022
JMCD Energy Exploration Ltd.	Brantford	Ontario	074
Jourika Gas	Tillsonburg	Ontario	073
K.E.Crawford Limited	Chatham	Ontario	057
Kenartha Oil & Gas Co. Ltd.	Markham	Ontario	080
Kingdon, Ron	Thedford	Ontario	021
Klenk, William C. III	Manitowaning	Ontario	028
Kodyen, L.M.	Sarnia	Ontario	079
LMG Oils Limited	Tillsonburg	Ontario	084
Lambton Area Industries Ltd.	Petrolia	Ontario	078
Lincoln Natural Gas Ltd.	Dunnville	Ontario	077
Marr. Harvey	Wainfleet	Ontario	083
Metalore Resources Limited	Simcoe	Ontario	081
Michigan Oil Company	Jackson	Michigan	088
Milton Resources Limited	London	Ontario	027
Mitchell Energy Corporation	Port Dover	Ontario	026
Mitchell, G.	Oil Springs	Ontario	087
Morningstar Oil Producers Ltd.	Oil Springs	Ontario	086
Morningstar, Lorna	Oil Springs	Ontario	085
Morrison, Doris	Langton	Ontario	092
Morrison, Robert J.	Langton	Ontario	091
Murphy Oil Co. Ltd.	Calgary	Alberta	089
Natural Resources Gas Limited	London	Ontario	131
Nith River Petroleums Ltd.	Cambridge	Ontario	096
Noble, William G.	Oil City	Ontario	133
Ort, C.H.	Niagara Falls	Ontario	095
Patterson Oil Development	Erieau	Ontario	094
Pegg, Leonard A.	Morpeth	Ontario	093
Pembina Exploration Co. Ltd.	Port Colborne	Ontario	100
Petroleum Royalties Limited	Calgary	Alberta	098
Petrolia Discovery Foundation Inc.	Petrolia	Ontario	099
Place Gas & Oil Co. Ltd.	Toronto	Ontario	025
Pope, William	Bothwell	Ontario	097
Putman, Patricia S.	Sarnia	Ontario	104
R.G.Bryant Energy Associates Inc.	London	Ontario	011
Ram Petroleums Limited	Toronto	Ontario	103
Rayrock Resources Limited	Chatham	Ontario	102
Realoil Enterprises Limited	Chatham	Ontario	101
Riddell Hanna Exploration Ltd.	Dearborn Heights	Michigan	032
Roskoil Company	Oil Springs	Ontario	108
Rush, K.	Stevensville	Ontario	107
Sasko Oil and Gas Limited	Dutton	Ontario	030
Shain, Ian, Bob & Gare	Petrolia	Ontario	029
Shawnee Petroleums Limited	Toronto	Ontario	106
Simon, B.	Stevensville	Ontario	105
Sitler, Delbert	Wardsville	Ontario	112
Smit, Jack R.	Inwood	Ontario	111

TABLE I.4: CONTINUED.

Licensee	City	Province/ State	Licence #
South-West Petroleum Co.	Windsor	Ontario	036
Springs Drilling Limited	Oil Springs	Ontario	041
Stevenson, Charles G.	Dresden	Ontario	128
Stevenson, Dorothy	Petrolia	Ontario	110
Strathburn Petroleum Limited	London	Ontario	120
Sunburst Oil Company	Lambeth	Ontario	035
Symington, Wayne	Watford	Ontario	034
Talcorp Services Limited	Toronto	Ontario	109
Thames Resources Limited	Toronto	Ontario	116
The Consumers' Gas Co. Ltd.	Scarborough	Ontario	059
Tipperary Resources Limited	Toronto	Ontario	033
Tunks, Rev. G.P.	Weston	Ontario	040
Union Gas Limited	Chatham	Ontario	115
Venison Creek Resources Limited	Calgary	Alberta	114
Vye, Frank	Brigden	Ontario	113
W.T. Chatham Associates Ltd.	London	Ontario	015
Wellandport Gas Company	Dunnville	Ontario	117
Willoyd Limited	Stevensville	Ontario	126
Woods, Lloyd	Oil Springs	Ontario	118
York Producing Co. Ltd.	Bolivar,	New York	039
Yuez Gas Company	Buffalo	New York	038
Zdriluk, Albert M.	Waterford	Ontario	037

Appendix II.
Composite Stratigraphic Column

Figure 23. *Composite Stratigraphic Column.*



Appendix III.
List of Publications and Maps

LIST OF PUBLICATIONS AND MAPS

The following publications and maps are available through the Public Service Centre, Whitney Block, Queens Park, Toronto. Orders should be accompanied by cheque or money order, payable to the Treasurer of Ontario.

Annual Reports

	Price
Annual Report, 1954, Ontario Fuel Board	$ 1.00
Annual Reports, 1960, 1966, 1967, 1969, 1970	1.00
Annual Reports, 1971, 1972, 1973, 1974	5.00
Oil and Gas Paper 1, 1978	10.00
Oil and Gas Papers 2-5, 1979-1982	20.00

Ontario Geological Survey - Open File Reports

OFR 5498 Evaluation of the Conventional and Potential Oil and Gas Reserves of the Ordovician of Ontario; by Bailey Geological Services Ltd. and Robert O. Cochrane, 1984, 77p., 8 appendices, 35 figures

OFR 5499 Evaluation of the Conventional and Potential Oil and Gas Reserves of the Cambrian of Ontario; by Bailey Geological Services Ltd. and Robert O. Cochrane, 1984, 72p., 8 appendices, 29 figures

OFR 5555 Evaluation of the Conventional and Potential Oil and Gas Reserves of the Devonian of Ontario, by Bailey Geological Services Ltd. and Robert O. Cochrane, 1985, 178p., 9 appendices, and 46 figures.

OFR 5578 Evaluation of Conventional and Potntial Oil and Gas Reserves of the Silurian Sandstone Reservoirs of Ontario; by Bailey Geological Services Ltd. and Robert O. Cochrane, 1985, 275p.. 12 appendices, and 39 figures.

Ontario Geological Survey - Petroleum Resources P. Number Maps Available at a Scale Of 1:250,000

All P. Number Maps are 50 cents each unless otherwise specified

P.2625 Structure Top Trenton Group, North West Area, Southern Ontario

P.2626 Structure Top Trenton Group, South West Area, Southern Ontario

P.2627 Structure Top Trenton Group, South Central Area, Southern Ontario

P.2628 Structure Top Trenton Group, North Central Area, Southern Ontario

P.2629 Structure Top Trenton Group, Eastern Area, Southern Ontario

P.2630 Structure Top Ordovician Carbonate, Ottawa Lowlands Area, Southern Ontario

P.2631 Structure Top Black River Group, North West Area, Southern Ontario

P.2632 Structure Top Black River Group, South West Area, Southern Ontario

P.2633 Structure Top Black River Group, South Central Area, Southern Ontario

P.2634 Structure Top Black River Group, North Central Area, Southern Ontario

P.2635 Structure Top Black River Group, Eastern Area, Southern Ontario

P.2637 Isopach Trenton Group, North West Area, Southern Ontario

P.2638 Isopach Trenton Group, South West Area, Southern Ontario

P.2639 Isopach Trenton Group, South West Area, Southern Ontario

P.2640 Isopach Trenton Group, North Central Area, Southern Ontario

P.2641 Isopach Trenton Group, Eastern Area, Southern Ontario

P.2642 Isopach Total Ordovician Carbonate, Ottawa Lowlands Area, Southern Ontario

P.2643 Isopach Black River Group, North West Area, Southern Ontario

P.2644 Isopach Black River Group, South West Area, Southern Ontario

P.2645 Isopach Black River Group, South Central Area, Southern Ontario

P.2646 Isopach Black River Group, North Central Area, Southern Ontario

P.2647 Isopach Black River Group, Eastern Area, Southern Ontario

P.2649 Structure Top Shadow Lake Formation, North West Area, Southern Ontario

P.2650 Structure Top Shadow Lake Formation, South West Area, Southern Ontario

P.2651 Structure Top Shadow Lake Formation, South Central Area, Southern Ontario

P.2652 Structure Top Shadow Lake Formation, North Central Area, Southern Ontario

P.2653 Structure Top Shadow Lake Formation, Eastern Area, Southern Ontario

P.2654 Structure Base Ordovician Carbonate, Ottawa Lowlands Area

P.2655 Structure Top Precambrian, North West Area, Southern Ontario

P.2656 Structure Top Precambrian, South West Area, Southern Ontario

P.2657 Structure Top Precambrian, South Central Area, Southern Ontario

P.2658 Structure Top Precambrian, North Central Area, Southern Ontario

P.2659 Structure Top Precambrian, Eastern Area, Southern Ontario

P.2660 Structure Top Precambrian, Ottawa Lowlands Area, Southern Ontario

P.2661 Isopach Shadow Lake Formation to Precambrian, North West Area, Southern Ontario

P.2662 Isopach Shadow Lake Formation to Precambrian, South West Area, Southern Ontario

P.2663 Isopach Shadow Lake Formation to Precambrian, South Central Area, Southern Ontario

P.2664 Isopach Shadow Lake Formation to Precambrian, North Central Area, Southern Ontario

P.2665 Isopach Shadow Lake Formation to Precambrian, Eastern Area, Southern Ontario

P.2666 Isopach Base Ordovician Carbonate to Precambrian, Ottawa Lowlands Area, Southern Ontario

Ontario Geological Survey - Petroleum Resources P. Number Maps Available at a Scale Of 1:100,000

P.2740 Structure, Top Pre-Hamilton, Devonian Carbonates, Lake Erie Map A

P.2741 Structure, Top Pre-Hamilton, Devonian Carbonates, Lake Erie Map B

P.2742 Structure, Top Pre-Hamilton, Devonian Carbonates, Lake Erie Map C

P.2743 Structure, Top Pre-Hamilton, Devonian Carbonates, Lake Erie Map D

P.2744 Structure, Top Pre-Hamilton, Devonian Carbonates, Lake Erie Map E

P.2745 Structure, Top Pre-Hamilton, Devonian Carbonates, Lake Erie Map F

P.2746 Structure, Top Pre-Hamilton, Devonian Carbonates, Lake Erie Map G

P.2747 Structure, Top Pre-Hamilton, Devonian Carbonates, Lake Erie Map H

P.2748 Structure, Top Pre-Hamilton, Devonian Carbonates, Essex County.

P.2749 Structure, Top Pre-Hamilton, Devonian Carbonates, Kent County.

P.2750 Structure, Top Pre-Hamilton, Devonian Carbonates, Lambton County.

P.2751 Structure, Top Pre-Hamilton, Devonian Carbonates, Elgin County.

P.2752 Structure, Top Pre-Hamilton, Devonian Carbonates, Regional Municipality of Haldimand - Norfolk.

P.2753 Structure, Top Pre-Hamilton, Devonian Carbonates, Middlesex County.

P.2754 Structure, Top Pre-Hamilton, Devonian Carbonates, Oxford County.

P.2755 Structure, Top Pre-Hamilton, Devonian Carbonates, Brant County.

P.2756 Structure, Top Pre-Hamilton, Devonian Carbonates, Regional Municipality of Niagara.

P.2757 Structure, Top Pre-Hamilton, Devonian Carbonates, Huron County.

P.2758 Structure, Top Pre-Hamilton, Devonian Carbonates, Perth County.

P.2759 Structure, Top Pre-Hamilton, Devonian Carbonates, Bruce County.

P.2760 Isopach Gross Columbus Sandstone Section, Lake Erie Map A.

P.2761 Isopach Gross Columbus Sandstone Section, Lake Erie Map B.

P.2762 Isopach Gross Columbus Sandstone Section, Lake Erie Map C.

P.2763 Isopach Gross Columbus Sandstone Section, Lake Erie Map D.

P.2764 Isopach Gross Columbus Sandstone Section, Lake Erie Map E.

P.2765 Isopach Gross Columbus Sandstone Section, Lake Erie Map F.

P.2766 Isopach Gross Columbus Sandstone Section, Lake Erie Map G.

P.2767 Isopach Gross Columbus Sandstone Section, Lake Erie Map H.

P.2768 Isopach Gross Columbus Sandstone Section, Essex County.

P.2769 Isopach Gross Columbus Sandstone Section, Kent County.

P.2770 Isopach Gross Columbus Sandstone Section, Lambton County.

P.2771 Isopach Gross Columbus Sandstone Section, Elgin County.

P.2772 Isopach Gross Columbus Sandstone Section, Regional Municipality of Haldimand-Norfolk.

P.2773 Isopach Gross Columbus Sandstone Section, Middlesex County.

P.2774 Isopach Gross Columbus Sandstone Section, Oxford County.

P.2775 Structure Base Columbus Sandstone, Lake Erie Map A.

P.2776 Structure Base Columbus Sandstone, Lake Erie Map B.

P.2777 Structure Base Columbus Sandstone, Lake Erie Map C.

P.2778 Structure Base Columbus Sandstone, Lake Erie Map D.

P.2779 Structure Base Columbus Sandstone, Lake Erie Map E.

P.2780 Structure Base Columbus Sandstone, Lake Erie Map F.

P.2781 Structure Base Columbus Sandstone, Lake Erie Map G.

P.2782 Structure Base Columbus Sandstone, Lake Erie Map H.

P.2783 Structure Base Columbus Sandstone, Essex County.

P.2784 Structure Base Columbus Sandstone, Kent County.

P.2785 Structure Base Columbus Sandstone, Lambton County.

P.2786 Structure Base Columbus Sandstone, Elgin County.

P.2787 Structure Base Columbus Sandstone, Middlesex County.

P.2788 Structure Base Columbus Sandstone, Oxford County.

P.2789 Isopach Map of the Oriskany-Springvale Sandstone, Lake Erie Map A.

P.2790 Isopach Map of the Oriskany-Springvale Sandstone, Lake Erie Map B.

P.2791 Isopach Map of the Oriskany-Springvale Sandstone, Lake Erie Map C.

P.2792 Isopach Map of the Oriskany-Springvale Sandstone, Lake Erie Map D.

P.2793 Isopach Map of the Oriskany-Springvale Sandstosne, Lake Erie Map E.

P.2794 Isopach Map of the Oriskany-Springvale Sandstone, Lake Erie Map F.

P.2795 Isopach Map of the Oriskany-Springvale Sandstone, Lake Erie Map G.

P.2796 Isopach Map of the Oriskany-Springvale Sandstone, Lake Erie Map H.

P.2797 Isopach Map of the Oriskany-Springvale Sandstone, Essex County.

P.2798 Isopach Map of the Oriskany-Springvale Sandstone, Kent County.

P.2799 Isopach Map of the Oriskany-Springvale Sandstone, Lambton County.

P.2800 Isopach Map of the Oriskany-Springvale Sandstone, Elgin County.

P.2801 Isopach Map of the Oriskany-Springvale Sandstone, Regional Municipality of Haldimand - Norfolk.

P.2802 Isopach Map of the Oriskany-Springvale Sandstone, Middlesex County.

P.2803 Isopach Map of the Oriskany-Springvale Sandstone, Oxford County.

P.2804 Isopach Sylvania Sandstone, Essex County-Lake Erie.

P.2805 Structure, Top Devonian Sulphur Water-Porosity, Essex County.

P.2806 Structure, Top Devonian Sulphur Water-Porosity, Kent County.

P.2807 Structure, Top Devonian Sulphur Water-Porosity, Lambton County.

P.2808 Structure, Top Devonian Sulphur Water-Porosity, Elgin County.

P.2809 Structure, Top Devonian Sulphur Water-Porosity, Regional Municipality of Haldimand-Norfolk.

P.2810 Structure, Top Devonian Sulphur Water-Porosity, Middlesex County.

P.2811 Structure, Top Devonian Sulphur Water-Porosity, Oxford County.

P.2812 Structure, Top Devonian Sulphur Water-Porosity, Huron County.

P.2813 Structure, Top Devonian Sulphur Water-Porosity, Perth County.

P.2814 Structure, Top Devonian Sulphur Water-Porosity, Bruce County.

P.2815 Isopach Top Devonian Carbonate to Top Sulphur Water-Porosity, Essex County.

P.2816 Isopach Top Devonian Carbonate to Top Sulphur Water-Porosity, Kent County.

P.2817 Isopach Top Devonian Carbonate to Top Sulphur Water-Porosity, Lambton County.

P.2818 Isopach Top Devonian Carbonate to Top Sulphur Water-Porosity, Elgin County.

P.2819 Isopach Top Devonian Carbonate to Top Sulphur Water-Porosity, Regional Municipality of Haldimand-Norfolk

P.2820 Isopach Top Devonian Carbonate to Top Sulphur Water-Porosity, Middlesex County.

P.2821 Isopach Top Devonian Carbonate to Top Sulphur Water-Porosity, Oxford County.

P.2822 Isopach Top Devonian Carbonate to Top Sulphur Water-Porosity, Regional Municipality of Niagara.

P.2823 Isopach Top Devonian Carbonate to Top Sulphur Water-Porosity, Huron County.

P.2824 Isopach Top Devonian Carbonate to Top Sulphur Water-Porosity, Perth County.

P.2825 Isopach Top Devonian Carbonate to Top Sulphur Water-Porosity, Bruce County.

P.2862 Silurian Sandstone Oil and Gas Pools, Lake Erie Map A.

P.2863 Silurian Sandstone Oil and Gas Pools, Lake Erie Map B.

P.2864 Silurian Sandstone Oil and Gas Pools, Lake Erie Map C.

P.2865 Silurian Sandstone Oil and Gas Pools, Lake Erie Map D.

P.2866 Silurian Sandstone Oil and Gas Pools, Lake Erie Map E.

P.2867 Silurian Sandstone Oil and Gas Pools, Lake Erie Map F.

P.2868 Silurian Sandstone Oil and Gas Pools, Elgin County.

P.2869 Silurian Sandstone Oil and Gas Pools, Oxford County.

P.2870 Silurian Sandstone Oil and Gas Pools, Regional Municipality of Haldimand-Norfolk.

P.2871 Silurian Sandstone Oil and Gas Pools, Brant County. Water-Porosity, Bruce County.

P.2872 Silurian Sandstone Oil and Gas Pools, Regional Municipality of Hamilton-Wentworth.

P.2873 Silurian Sandstone Oil and Gas Pools, Regional Municipality of Niagara.

P.2874 Structure Top Rochester Formation, Lake Erie Map A.

P.2875 Structure Top Rochester Formation, Lake Erie Map B.

P.2876 Structure Top Rochester Formation, Lake Erie Map C.

P.2877 Structure Top Rochester Formation, Lake Erie Map D.

P.2878 Structure Top Rochester Formation, Lake Erie Map E.

P.2879 Structure Top Rochester Formation, Lake Erie Map F.

P.2880 Structure Top Rochester Formation, Lake Erie Map G.

P.2881 Structure Top Rochester Formation, Lake Erie Map H.

P.2882 Structure Top Rochester Formation, Essex County.

P.2883 Structure Top Rochester Formation, Kent County.

P.2884 Structure Top Rochester Formation, Lambton County.

P.2885 Structure Top Rochester Formation, Middlesex County.

P.2886 Structure Top Rochester Formation, Elgin County.

P.2887 Structure Top Rochester Formation, Oxford County.

P.2888 Structure Top Rochester Formation, Regional Municipality of Haldimand-Norfolk.

P.2889 Structure Top Rochester Formation, Brant County.

P.2890 Structure Top Rochester Formation, Regional Municipality of Niagara.

P.2891 Structure Top Rochester Formation, Regional Municipality of Hamilton-Wentworth.

P.2892 Structure Top Rochester Formation, Regional Municipality of Halton.

P.2893 Structure Top Rochester Formation, Regional Municipality of Waterloo.

P.2894 Structure Top Rochester Formation, Perth County.

P.2895 Structure Top Rochester Formation, Huron County.

P.2896 Structure Top Rochester Formation, Wellington County.

P.2897 Structure Top Rochester Formation, Regional Municipality of Peel.

P.2898 Structure Top Rochester Formation, Dufferin County.

P.2899 Structure Top Rochester Formation, Simcoe County.

P.2900 Structure Top Rochester Formation, Bruce County.

P.2901 Structure Top Rochester Formation, Grey County.

P.2902 Isopach Silurian Thorold Sandstone, Lake Erie Map A.

P.2903 Isopach Silurian Thorold Sandstone, Lake Erie Map B.

P.2904 Isopach Silurian Thorold Sandstone, Lake Erie Map C.

P.2905 Isopach Silurian Thorold Sandstone, Lake Erie Map D.

P.2906 Isopach Silurian Thorold Sandstone, Lake Erie Map E.

P.2907 Isopach Silurian Thorold Sandstone, Lake Erie Map F.

P.2908 Isopach Silurian Thorold Sandstone, Elgin County.

P.2909 Isopach Silurian Thorold Sandstone, Middlesex County.

P.2910 Isopach Silurian Thorold Sandstone, Regional Municipality of Haldimand-Norfolk.

P.2911 Isopach Silurian Thorold Sandstone, Oxford County.

P.2912 Isopach Silurian Thorold Sandstone, Brant County.

P.2913 Isopach Silurian Thorold Sandstone, Regional Municipality of Niagara.

P.2914 Isopach Silurian Thorold Sandstone, Regional Municipality of Hamilton-Wentworth.

P.2915 Isopach Silurian Thorold Sandstone, Wellington County.

P.2916 Isopach Silurian Grimsby Sandstone, Lake Erie Map A.

P.2917 Isopach Silurian Grimsby Sandstone, Lake Erie Map B.

P.2918 Isopach Silurian Grimsby Sandstone, Lake Erie Map C.

P.2919 Isopach Silurian Grimsby Sandstone, Lake Erie Map D.

P.2920 Isopach Silurian Grimsby Sandstone, Lake Erie Map E.

P.2921 Isopach Silurian Grimsby Sandstone, Lake Erie Map F.

P.2922 Isopach Silurian Grimsby Sandstone, Elgin County.

P.2923 Isopach Silurian Grimsby Sandstone, Middlesex County.

P.2924 Isopach Silurian Grimsby Sandstone, Regional Municipality of Haldimand-Norfolk.

P.2925 Isopach Silurian Grimsby Sandstone, Oxford County.

P.2926 Isopach Silurian Grimsby Sandstone, Brant County.

P.2927 Isopach Silurian Grimsby Sandstone, Regional Municipality of Niagara.

P.2928 Isopach Silurian Grimsby Sandstone, Regional Municipality of Hamilton-Wentworth.

P.2929 Isopach Silurian Whirlpool Sandstone, Lake Erie Map A.

P.2930 Isopach Silurian Whirlpool Sandstone, Lake Erie Map B.

P.2931 Isopach Silurian Whirlpool Sandstone, Lake Erie Map C.

P.2932 Isopach Silurian Whirlpool Sandstone, Lake Erie Map D.

P.2933 Isopach Silurian Whirlpool Sandstone, Lake Erie Map E.

P.2934 Isopach Silurian Whirlpool Sandstone, Lake Erie Map F.

P.2935 Isopach Silurian Whirlpool Sandstone, Lake Erie Map G.

P.2936 Isopach Silurian Whirlpool Sandstone, Elgin County.

P.2937 Isopach Silurian Whirlpool Sandstone, Middlesex County.

P.2938 Isopach Silurian Whirlpool Sandstone, Oxford County.

P.2939 Isopach Silurian Whirlpool Sandstone, Regional Municipality of Haldimand-Norfolk.

P.2940 Isopach Silurian Whirlpool Sandstone, Brant County.

P.2941 Isopach Silurian Whirlpool Sandstone, Regional Municipality of Niagara.

P.2942 Isopach Silurian Whirlpool Sandstone, Regional Municipality of Hamilton-Wentworth.

P.2943 Isopach Silurian Whirlpool Sandstone, Regional Municipality of Halton.

P.2944 Isopach Silurian Whirlpool Sandstone, Wellington County.

P.2945 Isopach Silurian Whirlpool Sandstone, Regional Municipality of Peel.

P.2946 Isopach Silurian Whirlpool Sandstone, Dufferin County.

P.2947 Isopach Silurian Whirlpool Sandstone, Grey County.

P.2948 Isopach Silurian Whirlpool Sandstone, Simcoe County.

MAPS

Maps and copies of well history cards and related technical information may be obtained by writing to Petroleum Resources Section, Ministry of Natural Resources, 659 Exeter Road, P.O. Box 5463, London, Ontario N6A 4L6 (519-661-2766). Well history cards may also be obtained at the Petroleum Resources Laboratory (519-661-2796).

Well Location and Status (Current)

NTS Series - Key Map
Scale 1:30,000 1.50 each

A2, 3,	(3A Pelee Island)
B1 to 5	(inclusive)
C1 to 7	(inclusive)
D1 to 13	(inclusive)
E4 to 18	(inclusive)
F4 to 17	(inclusive)
G6 to 10	(inclusive)
H7 to 9	(inclusive)
17 to 9	(inclusive)
J7 to 8	(inclusive)
K7 to 8	(inclusive)
Q5 to 6	(Manitoulin Island)

Lake Maps

Scale 1:50,000
Showing Well and Pipeline Locations (West Longitude) 3.00 each

Lake Erie Map A	79 30' - 78 55'
Lake Erie Map B	80 00' - 79 30'
Lake Erie Map C	80 30' - 80 00'
Lake Erie Map D	81 00' - 80 30'
Lake Erie Map E	81 31' - 81 00'
Lake Erie Map F	82 00' - 81 30'
Lake Erie Map G	82 30' - 82 00'
Lake Erie Map H	83 10' - 82 30'

Geological Maps

Scale 1:250,000 2.50 each

1263A (1969)

S.W. Regional Structure Contour Maps

Scale 1:250,000 5.00 each

76-100	PreCambrian
76-101	Cambrian
76-102	Trenton
76-103	Queenston
76-104	Rochester
76-105	Salina
76-106	Bass Islands
76-107	Dundee
76-109	A-2

Field And Pool Maps

Scale 1:20,000 1.00 each

Aldborough 4-20-VII	Hemlock
Arthur	Innerkip
Becher West	Innerkip East
Bentpath	Kimball-Colinville, Payne, Seckerton
Bickford	Ladysmith
Brigden	Malden
Clearville	Mersea 1-15-B
Colchester	Moore 3-21-XII
Corey East	Moore 7-6-III
Corunna	Oil City
Courtright	Oil Springs
Coveny	Oil Springs East
Cromar	Osborne
Crowland	Otter Creek-Otter Creek East
Dawn 4-28-III	Oxley
Dawn 4-33-IX	Plympton 5-19-VI
Dawn 5-27-III	Rodney
Dawn 5-30-IV	Rosedale
Dawn 7-28-V	Ruscom River
Dawn 23-II	Sarnia 1-8-A
Dawn 47-49	St. Patricks
Dawn 59-85	Sombra
Dawn 156	Terminus-Terminus North
Dawn 167	Tipperary-Tipperary South
Dawn Sombra	Townsend
Dover	Venison Creek
Dover 1-11-V	Verschoyle West
Dover 7-5-V	Waubuno
Dungannon	Wilkesport
Enniskillen 2-30-IX	Willey
Enniskillen 28	Willey North
Glencoe	Wilsonville
Gobles	Wilsonville South
Gosfield South	Zone
Grand Bend	

Lake Erie Geological

Scale 1:50,000 4.00 each

1	Queenston Structure	8 maps
2	Thorold-Grimsby Structure	6 maps
3	Irondequoit-Reynales Structure	8 maps
4	Guelph Structure	8 maps
5	A-2 Structure	8 maps
6	B-Marker Structure	8 maps
7	Bass Islands Structure	8 maps
8	Dundee Structure	5 maps
1	Drift Isopach	8 maps
2	Devonian-Carbonate Isopach	8 maps
3	Bass Island Isopach	8 maps
4	Guelph-Rochester Isopach	8 maps
5	Whirlpool Isopach	5 maps

Oil And Gas Pool & Pipeline Map Of Southwestern Ontario, P2499

Scale 1:250,000 1.50 each

Location Of Seismic Lines, Southwestern Ontario

Scale 1:100,000 .50 each

1979 7 Maps P2573 to P2579 (inclusive)
1980 8 Maps P2707 to P2714 (inclusive)

XEROX FACILITIES

Xerox copies of all production reports, engineering reports, core analyses and well history cards .25 each

MICROFICHE

Hudson Bay - James Bay Microfiche Index Assessment 10.00 each

Reports

INDEX NUMBER	CONTENTS
A	Field report general geological reconnaisance of Hudson Bay - summer 1908
B	Detailed geomorphic evaluation of James Bay
C	Detailed geomorphic evaluation James Bay Lowlands Aquintaine (compiled by geophoto)
D	Studies of samples collected around the Hudson Bay Lowlands & Northern Islands - Canada summer 1968. Comparisons with Kaskattama No. 1 well - 1969
E	Aeromagnetic interpretation for part of Moosonee River Basin, District of Cochrane, Aquintaine 1969
F	Aerial magnetic interpretation Moose River area, Mid-eastern Oil and Gas

Ltd., Anthony Oil and Gas Explorations Ltd., Dolphin Explorations Ltd.

G Gravity survey, Moose River area, Mid-eastern Oil & Gas Ltd., Anthony Oil & Gas Ltd., Dolphin Explorations Ltd.

H Gravity survey, Fort Severn Area, Mid-eastern Oil & Gas Ltd., Anthony Oil & Gas Explorations Ltd., Dolphin Explorations Ltd.

I Aerial magnetic interpretation, Fort Severn area, Mid-eastern Oil & Gas Ltd., Anthony Gas & Oil Explorations Ltd., Dolphin Explorations Ltd.

J Aerial magnetic interpretation, Moose River area, Transalta Oil & Gas Ltd.

K Gravity Survey, Moose River area, Transalta Oil & Gas Ltd.

L Transalta - Geological Report, Licence No. 14502 and 14503 - James Bay

M Aquintaine - Laboratory Report Pen. No. 1 Well

N Bluewater - geomorphic evaluation, Moose River Basin

O Bluewater - G.S.C. Magnetic Data, James Bay

P Bluewater - Geology, James Bay

Q Mariner - geology and petroleum possibilities, Moose River Basin

R Quintaine - Palynoplanktogical study, Sandbank Lake No. 1 Well

S Consumers' - Aeromagnetic interpretation, James Bay

T Consumers' - Interpretation of G.S.C. Aeromagnetic Survey Soweska River, James Bay

U Aquitaine - 1. High Sensitivity Aeromagnetic Survey, James Bay. 2. Refraction and gravity, James Bay

V Aquitaine - Refraction and gravity survey, Hambly Lake Well No. 1

W Consumers' - Aeromagnetic Survey, Martinson Lake

Report on Airborne Magnetometer surveys for Aquitaine - James Bay Lowlands (not microfilmed)

OUT OF PRINT

Out of print originals are on file with the Mines Library, MNDM, 77 Grenville St., Room 812, Toronto, Ontario, N5S 1B3(416-965-1352)

Annual Reports for 1920-1953, 1955-1959, 1961-1965, 1967, 1968.

Paper 67-2. A Guide to the Subsurface Paleozoic Stratigraphy of Southern Ontario, by R.J. Beards.

Paper 68-2. Subsurface Disposal of Liquid Wastes in Ontario, by D.D. McLean.

Paper 71-2. Structural Geology of Southwestern Ontario and Southeastern Michigan, by Robert J. Brigham.

Paper 73-2. The Oil and Gas Potential of the "Clinton-Cataract" Reservoirs of Norfolk County, by T.A. MacDougall.

Report of the Committee on Oil and Gas Resources Part 1 (Offshore Activity - 1961) Part 2 (Underground Storage of Natural Gas - 1962).

Index of Ordovician and Cambrian Wells Drill in Southwestern Ontario Prior to 1963, by D.A. Sharp.

Paper 11-1a. Background paper on Ontario Petroleum Resources.

Offshore Exploration in Great Lakes Region, by Bryson C. Donnan, 1961.

Geological Circular 7. Offshore Exploration for Gas Under the Canadian Waters of the Great Lakes, by A.C. Newton and W.E. Koepke, 1964.

Paper 70-2. Gas Analysis Ontario Gas Wells

Paper 70-4. Supplement to Catalogue of Ontario Well Samples at the Geological Survey of Canada

Minutes and Seconds expressed as Decimal parts of a Degree MP/3

Petroleum Possibilities of the James Bay Lowland Area - Volume 61, Part 6 (maps included), 1952

Industrial Mineral Report No. 6, Salt in Ontario by D.F. Hewitt, 1962

Figure 24. *Key Map for O.G.S. Petroleum Resources P. Number Maps (1:250 000).*

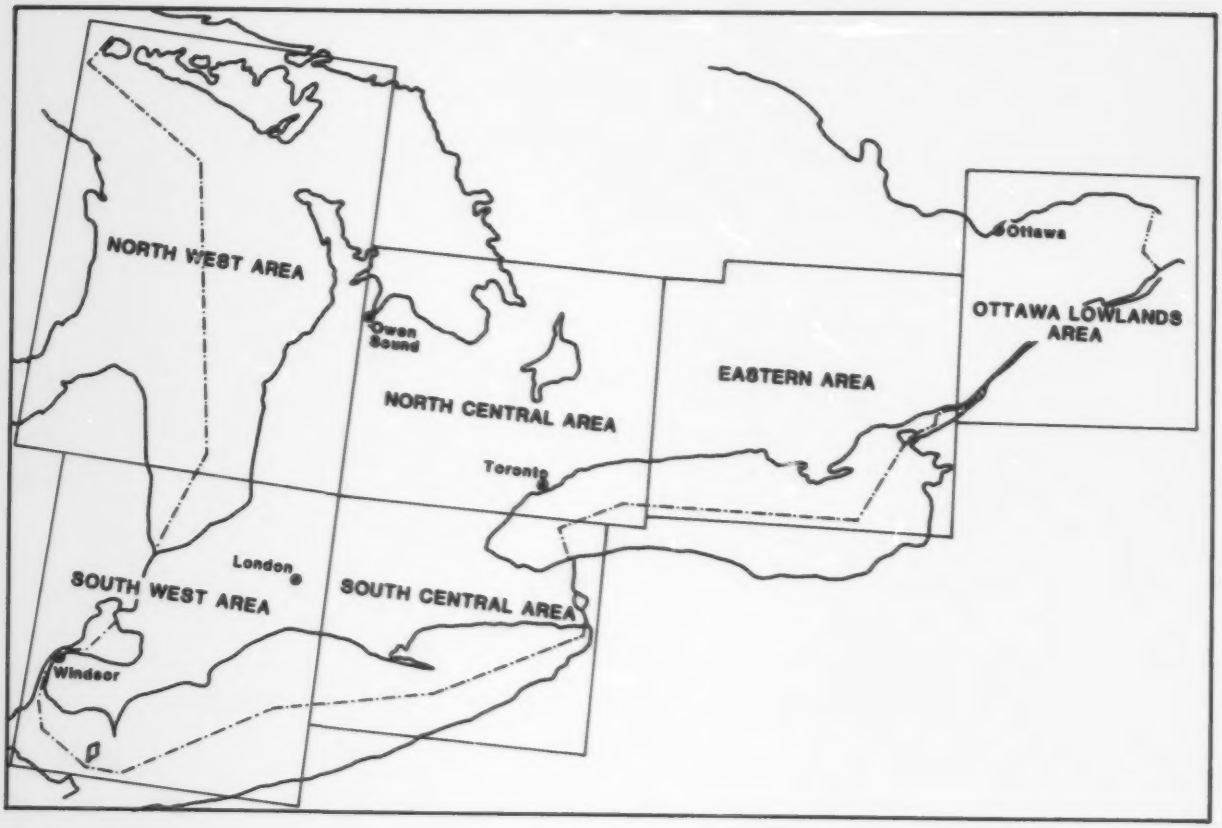
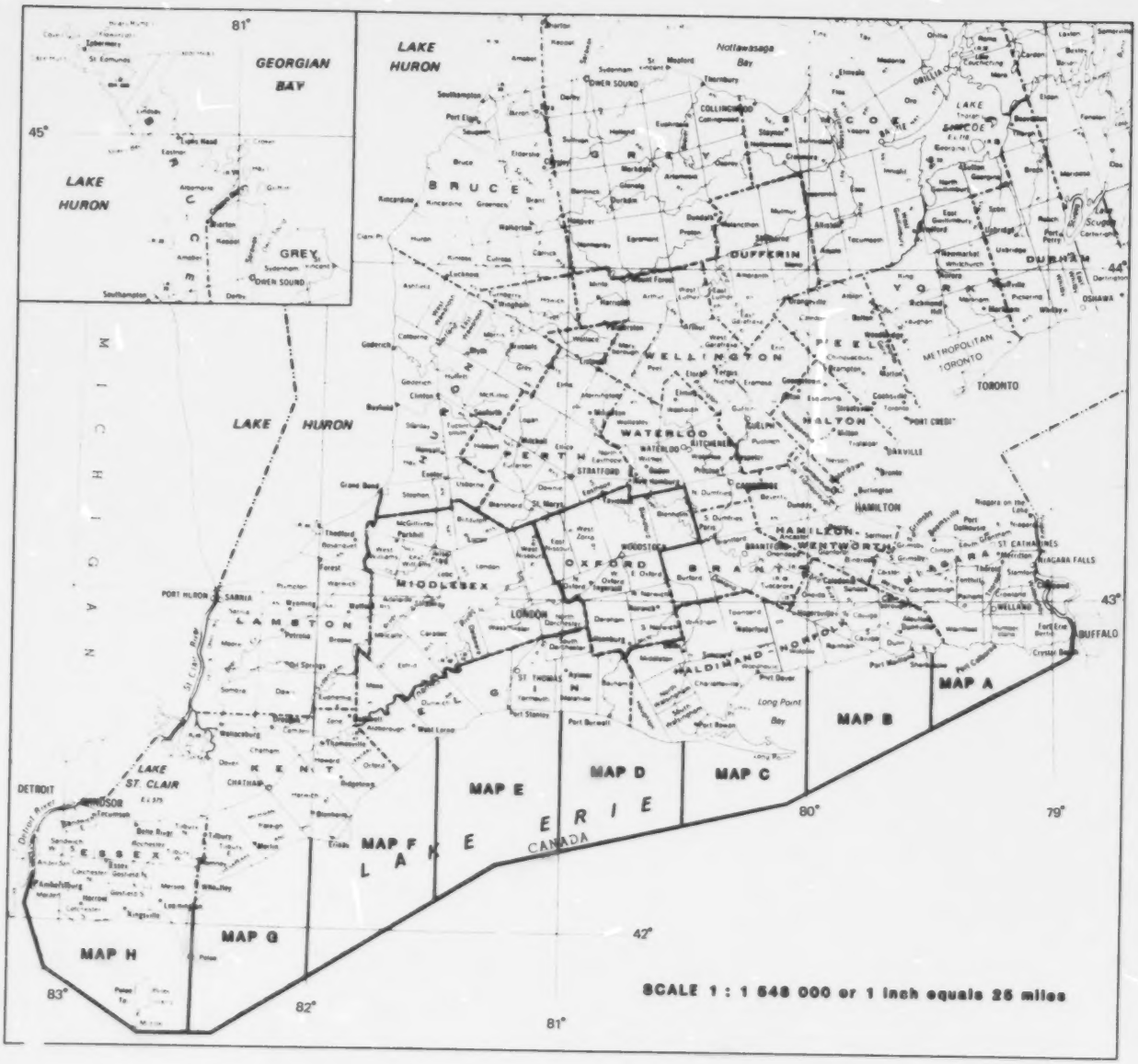


Figure 25. *Key Map for O.G.S. Petroleum Resources P. Number Maps (1:100 000).*



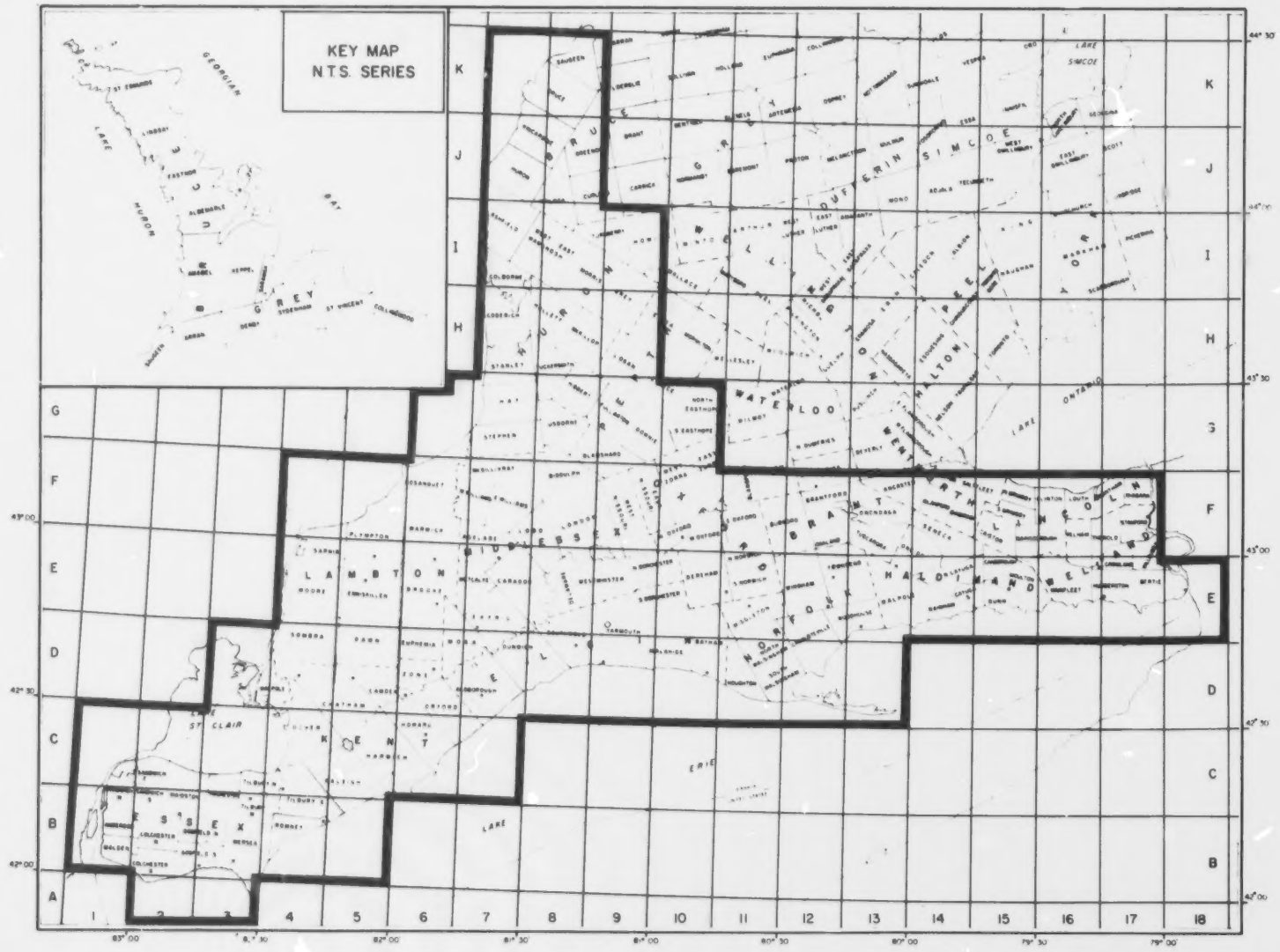


Figure 26. *Key Map for (NTS Series) Well Location and Status Base Maps (Onshore – Southwestern Ontario) (1:30 000).*

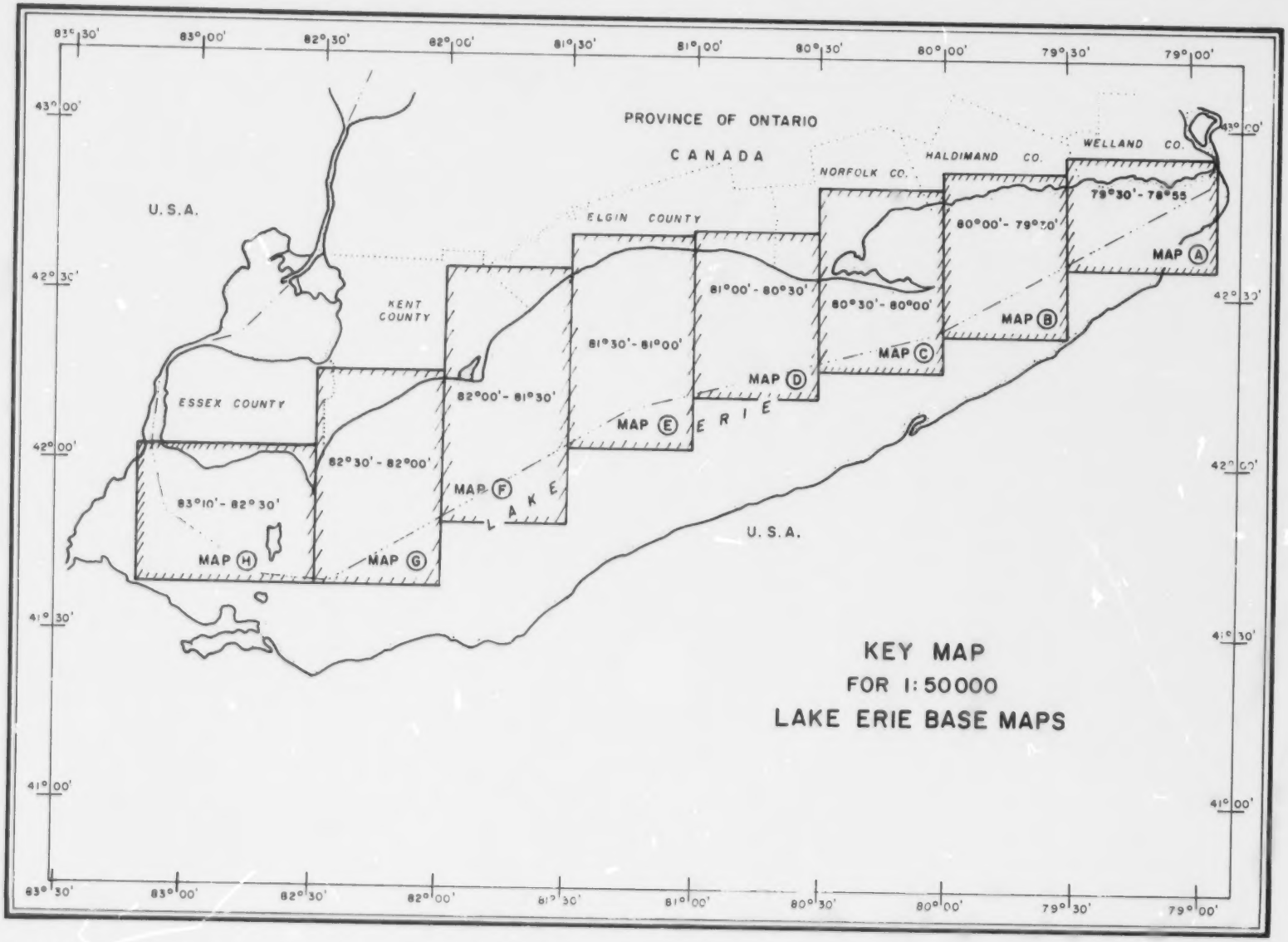


Figure 27. *Key Map for Lake Erie Well Location and Status Base Maps (1:50 000).*

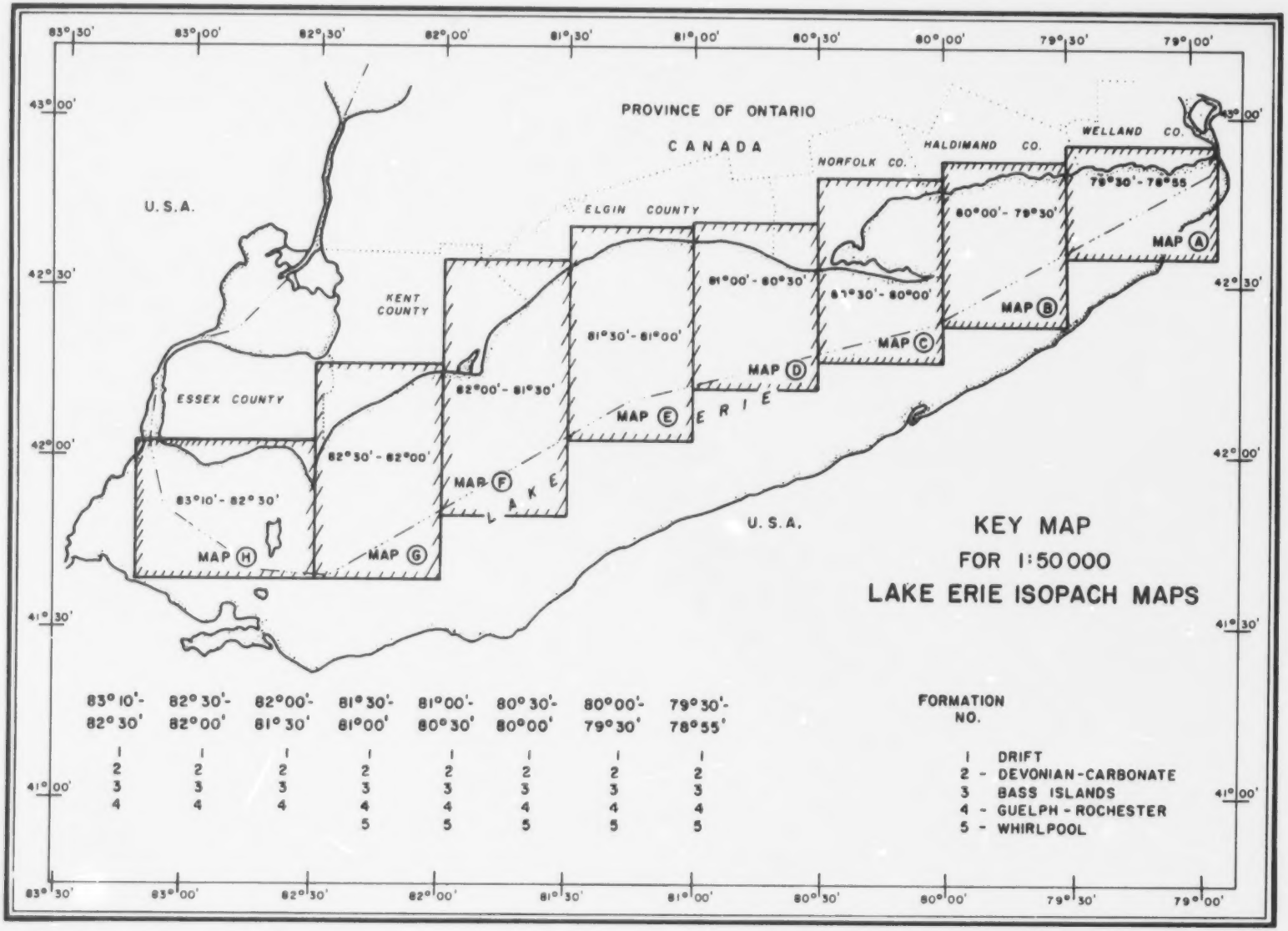


Figure 28. *Key Map for Lake Erie Isopach Maps (1:50 000).*

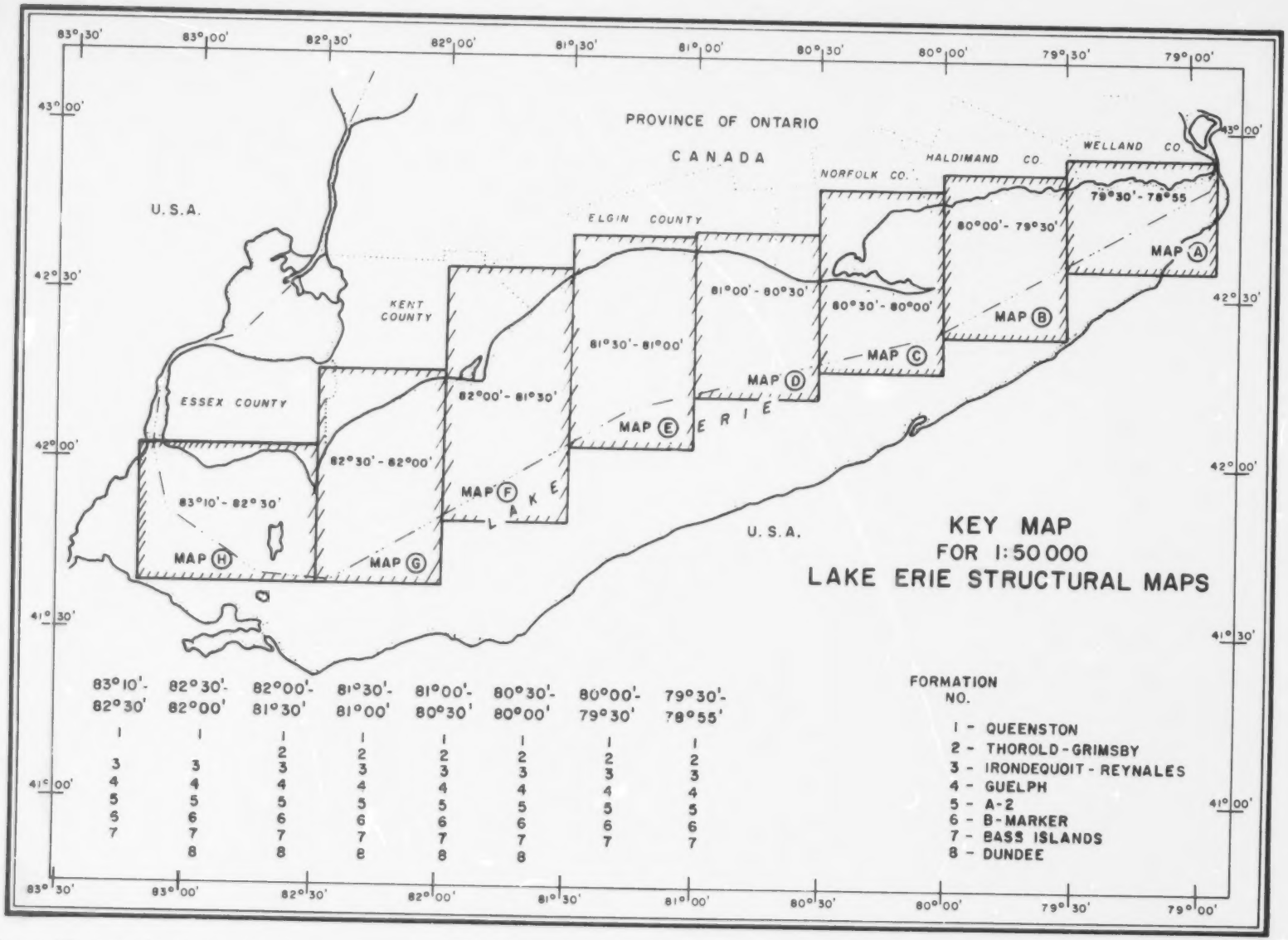


Figure 29. *Key Map for Lake Erie Structure Maps (1:50 000).*

Appendix IV. Explanation Of Data Items And Abbreviations

WELL NAME: The official name of the well as issued on the Permit to Bore, Drill, or Deepen a Well (Form 106).

PERMIT NO.: This number is assigned to the well location upon approval of the Application for a Permit to Bore, Drill, or Deepen a Well. Where the original location is abandoned as a result of drilling or completion difficulties, and the rig is moved or skidded to a new location within the same drilling tract, the original Permit No. using the alphabetical suffix "A" will apply to the second well.

CLASSIFICATION: Each well is classified at the time the Application for a Permit to Bore, Drill, or Deepen a Well is approved.

Classification Codes

NPW	New Pool Wildcat
DPT	Deeper Pool Test
SPT	Shallower Pool Test
DEV	Development
BD	Brine Disposal
BW	Natural Brine Production
INJ	Injection
LPG	Liquid Petroleum Gas Storage
NGS	Natural Gas Storage
OBS	Observation
SM	Solution Mining
STR	Stratigraphic Test

TARGET: Chronostratigraphic system or lithostratigraphic group which include the rock unit which is the primary target of the well being drilled. Seven primary targets are recognized in Ontario.

DEV	Devonian
SIL	Silurian- unsubdivided
SAL	Silurian- targets within the Salina Group and Guelph Formation in particular, and the Rochester to Bass Islands Formations inclusive.
CLI	Silurian- targets within the Clinton and Cataract (or Medina) Groups (Whirlpool to Irondequoit Formations inclusive).
ORD	Ordovician
CAM	Cambrian
PRE	Precambrian (usually stratigraphic tests).

CURRENT STATUS: Status of the well following drilling and completion (if attempted).

Current Status Codes

GP Gas Producer
GP-SUS Gas Producer-Suspended
GP-ABD Gas Producer-Abandoned
GS Gas Show
GS-SUS Gas Show-Suspended
GS-ABD Gas Show Abandoned
OP Oil Producer
OP-SUS Oil Producer-Suspended
OP-ABD Oil Producer-Abandoned
OS Oil Show
OS-SUS Oil Show-Suspended
OS-ABD Oil Show-Abandoned
BD Brine Disposal
BD-SUS Brine Disposal-Suspended
BD-ABD Brine Disposal-Abandoned
BP Brine Producer
BP-SUS Brine Producer-Suspended
BP-ABD Brine Producer-Abandoned
DH Dry Hole
DH-SUS Dry Hole-Suspended
DH-ABD Dry-Abandoned
INJ Injection
INJ-SUS Injection-Suspended
INJ-ABD Injection-Abandoned
LOST-SUS Lost-Suspended
LOST-ABD Lost-Abandoned
LPG Liquid Petroleum Storage
LPG-SUS Liquid Petroleum Storage-Suspended
LPG-ABD Liquid Petroleum Storage-Abandoned
NGS Natural Gas Storage
NGS-SUS Natural Gas Storage-Suspended
NGS-ABD Natural Gas Storage-Abandoned
OBS Observation
OBS-SUS Observation-Suspended
OBS-ABD Observation-Abandoned
SOURCE Water Source Well
SOURCE-SUS Water Source Well-Suspended
SOURCE-ABD Water Source Well-Abandoned
STR-SUS Stratigraphic Test-Suspended
STR-ABD Stratigraphic Test-Abandoned

RESULTS: Results of the drilling operation The results are usually but not necessarily the same as the well status following completion. For example, a reentry of an existing oil producer for a deeper pool test may be unsuccessful in discovering a new accumulation of hydrocarbons at the target horizon. Consequently the results of the drilling operation would be DH, but the status would be OP if the well is recompleted at the original producing interval.

GEOGRAPHIC DESCRIPTION: Wells are listed alphabetically by County, Township, Block, Tract, Lot, and Concession.

Abbreviations for concessions

AUS	Ausable
BF	Broken Front
FLH	Front Lake Huron
LRE	Lake Road East
LRW	Lake Road West
NB	North Boundary
NER	North Egremont Road
NLR	North Lake Road
NTR	North Talbot Road
NUR	North Union Road
R	Range
SB	South Boundary
SER	South Egremont Road
SLR	South Lake Road
STR	South Talbot Road
SUR	South Union Road

CO-ORDINATES: Surveyed co-ordinates for all land wells are given in metres from lot lines, unless otherwise stated. Surveyed co-ordinates for lake wells are recorded by latitude and longitude, in degrees, minutes, and seconds. Latitude and longitude values for all land wells have also been determined and appear in this report.

KB ELEVATION: Ground elevation in metres above sea level plus number of metres to rig floor or kelly bushing.

RIG TYPES: Abbreviation for rig types are as follows

CAB	Cable Tool Rig
ROT	Rotary Rig
UNK	Unknown

SAMPLES: Drill cuttings samples are retained for all wells and are available for examination at:

Petroleum Resources Laboratory
Ontario Ministry of Natural Resources
659 Exeter Road
London, Ontario, Canada
N6A 4L6

CORES: The intervals cored are given and unless otherwise stated, the cores are stored at the Petroleum Resources Laboratory.

Core Type Codes

CC1	2.5 cm Wedge
CC2	Conventional (greater than 5 cm)

CCF	Full Width Slab
CCO	Core Chips Only
RSO	Representative Sections Only
SC2	Slimhole (less than 5 cm)
SCS	Slimhole Slabbed

TREATMENT: If a well has been stimulated to increase production, a treatment code is included to indicate the type of stimulation program.

Treatment Type Codes

ACID	Acidized
CONF	Fracture-conventional
DYNM	Explosives-dynamite
FOAM	Fracture-foam
LARF	Fracture-large volume
NTGY	Explosives-nitroglycerine
SHOT	Explosives-shot

LOGGING RECORD: The type of logs taken at the well and the logging company are recorded.

Log Type Codes

ACSL	Acoustic
CALP	Caliper
CBLK	Cyberlook
CBND	Cement Bond
CBVD	Cement Bond Variable Density
CCL	Cosing Collar Locator
CDM	Continuous Dipmeter
CFLO	Continuous Flowmeter
CIS	Customer Instrument Services
CLDL	Chloride Detection
CMPL	Completion
CNFD	Compensated Neutron-Formation Density
CNL	Compensated Neutron
COAL	Coal
COL	Carbon/Oxygen
CONL	Contact
CORI	Coriband
DENL	Density
DIFS	Dual Induction Spherically Focussed Laterolog
DIL	Dual Induction Laterolog
DILS	Dual Induction/Sonic
DIPM	Dipmeter
DIRS	Directional Survey
DLL	Dual Laterolog
DLLM	Dual Laterolog Micro SFL
EAS	Epilog Analysis System
ELPR	Electromagnetic Propagation
ES	Electric Survey
FDC	Formation Density Compensated
FFLO	Full Bore Flowmeter
FIT	Formation Internal Tester
FMS	Formation Micro Scanner
FOCL	Focus
FRID	Fracture Identification
FRXL	Forxo
GGDE	Gamma-Gamma Density
GRAD	Gradiometer
GRDL	Guard
GRFD	Gamma Ray-Formation Density
GRL	Gamma Ray
GRNL	Gamma Ray-Neutron
GRSL	Gamma Ray-Sonic
GSAR	Geothermal Saraband
HCDS	Hydrocarbon or Gas
HEL	Hostile Environment
HRT	High Resolution Thermometer
IES	Induction Electric Survey
ISF	Induction Spherically Focussed
ISFM	ISF Microspherically Focussed
ISFS	ISF/Sonic
ISOL	Isotron
LASL	Laser
LATL	Dual Laterolog
LDT	Lithodensity
LSL	Limestone
LSS	Long-spaced Sonic
MAGL	Nuclear Magnetism
MICL	Microlog
MLAT	Microlaterolog
MICS	Microsurvey
MINF	Minifocus
MINL	Minilog
MLAL	Forxo
MLAT	Microlaterolog
MPL	Mechanical Properties
MSFL	Micro-Spherically Focussed Laterolog
MSGM	Microseismogram
NEUT	Neutron
NFLO	Nuclear Flowlog
NGRS	Natural Gamma Ray Spectroscopy
PCT	Production Combination Tool
PEF	Photoelectric Effect
PHOT	Photon
PIP	Precision Identified Perforations
PML	Production Management
PRMS	Permeability Spinner
PRXL	Proximity
PWAS	Prolog Wellsite Analysis System
PXML	Proximity Microlog
RFT	Repeat Formation Tester
RTRS	Radioactive Tracer Survey
SARA	Saraband
SCAT	Scattered Gamma
SNP	Sidewall Neutron Porosity
SONA	Borehole Audio Tracer Survey
SONL	Sonic
SONR	Sonar
SP	Self Potential
SRPG	Surface Recorded Pressure Guage
SRSL	Seismic Reference
SUL	Sulfur
SYRG	Synergetic Log System
TDL	Temperature Differ
TDST	Through Drillstem Logging
TDT	Thermal Neutron Decay Time
TEL	Thermal Evaluation
TMPL	Temperature
TTC	Through Tubing Caliper
ULSE	Ultra Long Spaced Electrical
VDL	Variable Density
VELS	Velocity Survey
VERL	Vertilog
WLS	Water Location Survey
WST	Well Seismic Tool
XPTL	Experimental

CASING AND TUBING RECORD: Abbreviations for how the casing and tubing are set in the well.

ANC	Anchor Packer
BAR	Barefoot
BHP	Bottom Hole Packer
CEM	Cemented
COL	Collar
HAN	Hanging
HWP	Hook Wall Packer
PAC	Packer
PC	Packer and Cement
SHO	Casing Shoe

WATER RECORD: Abbreviations for type of water encountered while drilling a well.

BRA	Brackish
BLK	Black
FRE	Fresh
SAL	Salt
SUL	Sulfur

GEOLOGY: The geological formation picks are supplied by OMNR geologists. Unpublished operator formation picks are available on Drilling and Completion Records submitted by the operators to the Ministry.

The nomenclature used in this report is based on published descriptions of the various geological units.

Appendix V. Summary Of Wells Drilled In 1984

INDEX OF WELLS DRILLED IN 1984

Well Name	Permit No.	Page
BRUCE COUNTY		
Ferndale #1 Eastnor 4-21-III WBR	6629	78
ELGIN COUNTY		
J. McCooll #2 Aldborough 1-1-D-VII	6433	78
Eagle #4 Aldborough 1-5-14-XIII	6600	79
Brett Dawson #1 Aldborough 15-XII	6570	79
Eagle et al #2 Aldborough 1-1-15-XIII	6580	80
Eagle #1 Aldborough 3-1-15-XIII	6515	80
Cons/OEC 33833 Aldborough 3-5-16-XII	6564	81
Cons/OEC 33836 Aldborough 3-8-16-XII	6523	81
Cons/OEC 33835 Aldborough 3-1-16-XIII	6565	82
Cons/OEC 33834 Aldborough 3-7-17-XII	6566	82
Cons/OEC 33828 Aldborough 3-5-17-XII	6663	83
Cons/OEC 33831 Aldborough 3-2-17-XIII	6632	83
Cons/OEC 33901 Dunwich 4-12-Gore	6631	84
ESSEX COUNTY		
F-1 Anderdon 34-I	6445	84
F-8 Anderdon 34-I	6444	85
GEL #8 Gosfield South 1-2-FWD	6257	85
Cons et al 33774 Mersea 8-8-VII	6436	86
Cons et al 33820 Mersea 5-12-A	6536	86
Cons et al 33818 Mersea 5-12-I	6540	87
Cons et al 33775 Mersea 7-12-I	6538	87
Cons et al 33817 Mersea 3-13-A	6539	88
Cons et al 33819 Mersea 3-14-A	6537	88
GEL #15 Mersea 1-16-A	6492	89
Revallee #2 Rochester 7-19-V EBR	6520	89
Revallee #1 Rochester 1-20-V EBR	6447	90
Nablis #1 Tilbury West 2-4-XI	6491	90
Nablis #5 Tilbury West 1-2-7-V	6623	91
HALDIMAND COUNTY		
Stefanovic #1 Moulton 4-3-II C	6466	91
Zicari #2 Moulton 3-3-III LE	6360	92
Miorbi Moulton 1-4-II	6410	92
HURON COUNTY		
PPC #2 Stephen 16-X	6607	93
KENT COUNTY		
Brett Camden 4-8-5-XIV Gore	6615	93
Rowe-Ram #6 Dover 1-11-V E	6544	94
Rowe-Ram #5 Dover 8-6-IV E	6533	94
Rowe-Ram #4 Dover 6-IV E	6437	95
Francisco #2 Dover 3-1-II W	6434	95
Peregrine et al Dover 2-11-IX E	6391	96

Well Name	Permit No.	Page
Rowe–Ram #7 Dover 3–12–V E	6609	96
PPC #4 Dover 8–14–XIII E	6621	97
PPC #5 Dover 4–32–XIII E	6626	97
PPC #3 Dover 4–36–XIV E	6614	98
Bailey #3 Howard 2–2–5–I	6522	98
Stevenson #6 Raleigh 1–6–1–I	6519	99
Stevenson #2 Raleigh 4–3–1–I	6438	99
Crow #3 Raleigh 4–3–2–I	6454	100
Cons et al 33849 Romney 15–IV	6583	100
Consumers 40009 Tilbury East 1–5–X	6592	101
Cons/OEC 33725 Tilbury East 7–24–VIII	6412	101
Cons/OEC 33837 Zone 2–2–4–I	6524	102
LAMBTON COUNTY		
T. Forbes Brooke 2–3–2–VII	6439	102
Forbes #24 Brooke 3–4–XI	6411	103
Forbes #3 Brooke 4–8–3–VIII	6455	103
Kingdon #6 Brooke 15–VII	6585	104
Ram No.79 Brooke 8–18–XI	6597	104
Ram No.78 Brooke 8–18–XI	6560	105
Ram No.77 Brooke 24–X	6525	105
Union Dawn 250 Dawn 19–I	6241	106
Union Dawn 247 Dawn 19–I	6517	106
Union Dawn 251 Dawn 19–I	6240	107
Burtnyk–Bryant Dawn 19–XII	6577	107
Forbes #31 Dawn 3–22–I	6598	108
Forbes #32 Dawn 4–25–I	6599	108
Forbes #34 Dawn 1–26–II	6628	109
Forbes #26 Dawn 1–26–II	6458	109
Forbes #29 Dawn 1–26–II	6526	110
Forbes #27 Dawn 6–26–III	6494	110
Forbes #28 Dawn 4–26–V	6516	111
Forbes #25 Dawn 3–27–II	6435	111
Forbes #30 Dawn 28–II	6527	112
Forbes #33 Dawn 8–29–III	6627	112
Union Dawn 254 Dawn 32–I	6431	113
Union Dawn 253 Dawn 32–I	6430	113
P–R & Associates 1 Dawn 32–III	6567	114
Ram No.75 Enniskillen 12–VIII	6459	114
Jacques #4 Enniskillen 4–17–X	6408	115
Francisco #1 Enniskillen 7–30–IX	6414	115
PPC #1 Euphemia 8–18–IV	6518	116
Ram No.80 Moore 1–5–IV	6601	116
Tecumseh Kim–Col #50 Moore 7–18–VII	6452	117
Tecumseh Corunna #6 Moore 2–19–X	6448	117
Oil Finders Moore 2–22–II	6549	118
Dow et al Moore 7–22–V	6415	118
Dow 81 Moore 23–XI	6543	119
Dow HC #10 Moore 25–XI	6620	119
Springs #1 Plympton 2–7–7–II	6534	120
Milton Resources Plympton 2–12–V	6550	120
Protero Plympton 6–19–XIV	6388	121
Devran Sarnia 1–3–3–VI	6552	121
Devran Sarnia 3–2–3–VI	6429	122
Devran Sarnia 1–3–4–VI	6449	122

Well Name	Permit No.	Page
Devran Sarnia 4-5-4-VII	6450	123
Devran Sarnia 3-2-4-VII	6451	123
Devran Sarnia 4-6-5-VII	6456	124
Devran Sarnia 1-5-6-VII	6428	124
Dome Amoco RD-7A	6563	125
Esso Cavern 982A Sarnia 39-RR	6493	125
Cons/OEC 33853 Sombra 5-A-XII	6624	126
Tecumseh Wilkesport #12 Sombra 15-XIII	6453	126
Francisco HRL Sombra 24-XI	6542	127
Ram No.76 Sombra 2-26-VI	6521	127
C.G.Oil #2 Warwick 6-3-IV SER	6608	128
C.G.Oil #1 Warwick 2-12-IV SER	6551	128
Kingdon #4A Warwick 3-3-13-VII	6407A	129
Devran #7 Warwick 2-5-27-V SER	6420	129
Smith Warwick 4-1-28-V SER	6575	130
Kingdon #5 Warwick 4-1-30-I NER	6432	130
LINCOLN COUNTY		
Zumstein #5 Caistor 2-1-IV	6604	131
MIDDLESEX COUNTY		
Strathburn Mosa 2-8-3-III	6442	131
Strathburn Mosa 4-2-4-III	6443	132
Cons/OEC 33796 Mosa 3-2-6-V	6441	132
Walker Water #1 Mosa 2-6-VI	6569	133
Brett Canacrude Mosa 2-7-7-VI	6594	133
Brett Canacrude Mosa 7-7-VI	6593	134
Protero West Williams 2-14-XIV	6381	134
NORFOLK COUNTY		
Starlite #5 Charlotteville 1-VI	6610	135
Starlite #4 Charlotteville 1-VI	6611	135
Blazedale #1 Charlotteville 2-3-IX	6440	136
Green Diamond 2 Charlotteville 1-5-IX	6348	136
Metalore #72 Charlotteville 4-11-A	6541	137
Hemlock #9 Houghton 5-8-ENR	6427	137
Beech Lane #1 Houghton 2-13-I	6619	138
Fuschia Middleton 5-25-III STR	6529	138
Easter Lily Middleton 8-26-II STR	6461	139
Poinsettia Middleton 7-26-III STR	6457	139
Petunia Middleton 26-IV STR	6562	140
Red Hot Sally Middleton 7-27-II STR	6584	140
F&M #5 N. Walsingham 4-17-VII	6416	141
F&M #6 N. Walsingham 2-18-VII	6613	141
F&M #7 N. Walsingham 4-18-VII	6635	142
WELLAND COUNTY		
Berardocco #1A Crowland 9-V	6321	142
WENTWORTH COUNTY		
Furlane #1 Binbrook 5-Block 2-IV	6603	143
LAKE ERIE		
Place Rainham Lake Erie 18-F	6531	143
Place Rainham Lake Erie 18-G	6532	144
Pembina #4 Lake Erie 19-T	6495	144
Pembina #1 Lake Erie 21-X	6496	145
Pembina #2 Lake Erie 38-O	6497	145

Well Name	Permit No.	Page
Pembina #3 Lake Erie 39–W	6498	146
Pembina #2 Lake Erie 40–M	6464	146
Pembina #2 Lake Erie 40–R	6545	147
Pembina "C" Lake Erie 41–R	6546	147
Pembina #4 Lake Erie 41–T	6465	148
Pembina #2 Lake Erie 41–W	6547	148
Pembina #4 Lake Erie 44–M	6499	149
Pembina #4 Lake Erie 45–X	6500	149
Place Lake Erie 48–V	6586	150
Pembina–Consumers #4 Lake Erie 53–O	6578	150
Pembina–Consumers #2 Lake Erie 54–W	6579	151
Pembina #3 Lake Erie 63–I	6602	151
Pembina #2 Lake Erie 63–M	6463	152
Pembina #2 Lake Erie 63–S	6462	152
Pembina #2 Lake Erie 64–P	6501	153
Pembina #3 Lake Erie 64–T	6502	153
Pembina #2 Lake Erie 65–E	6572	154
Pembina #2 Lake Erie 65–K	6573	154
Pembina #2 Lake Erie 65–Y	6574	155
Pembina #1 Lake Erie 66–W	6503	155
Pembina #4 Lake Erie 67–U	6504	156
Pembina #4 Lake Erie 68–J	6505	156
Pembina #2A Lake Erie 68–Q	6506	157
Pembina #3 Lake Erie 69–A	6507	157
Pembina #4 Lake Erie 69–C	6508	158
Pembina #1 Lake Erie 69–Q	6509	158
Pembina #4 Lake Erie 70–D	6557	159
Pembina #3 Lake Erie 70–H	6510	159
Pembina #2 Lake Erie 70–J	6558	160
Pembina #3 Lake Erie 70–L	6559	160
Pembina #3 Lake Erie 70–M	6548	161
Pembina #2 Lake Erie 70–N	6511	161
Pembina #1 Lake Erie 70–W	6512	162
Consumers 13848 Lake Erie 94–J	6467	162
Consumers 13852 Lake Erie 95–F	6471	163
Consumers 13850 Lake Erie 95–I	6469	163
Consumers 13880 Lake Erie 95–J	6587	164
Consumers 13851 Lake Erie 95–N	6470	164
Consumers 13849 Lake Erie 95–R	6468	165
Consumers 13853 Lake Erie 96–V	6472	165
Consumers 13856 Lake Erie 120–L	6475	166
Consumers 13855 Lake Erie 120–O	6474	166
Consumers 13857 Lake Erie 121–O	6476	167
Consumers 13876 Lake Erie 121–U	6591	167
Consumers 13858 Lake Erie 122–R	6477	168
Consumers 13854 Lake Erie 123–D	6473	168
Consumers 13859 Lake Erie 123–P	6478	169
Consumers 13879 Lake Erie 123–S	6588	169
Consumers 13860 Lake Erie 123–V	6479	170
Consumers 13861 Lake Erie 153–C	6480	170
Consumers 13863 Lake Erie 154–O	6482	171
Consumers 13862 Lake Erie 154–S	6481	171
Consumers 13865 Lake Erie 156–P	6484	172
Consumers 13864 Lake Erie 156–R	6483	172

Consumers 13877 Lake Erie 156–X	6590	173
Consumers 13866 Lake Erie 158–O	6485	173
Cons/Pembina 13872 Lake Erie 181–N	6555	174
Consumers 13867 Lake Erie 182–P	6486	174
Consumers 13868 Lake Erie 183–K	6487	175
Consumers 13869 Lake Erie 185–K	6488	175
Consumers 13870 Lake Erie 186–A	6489	176
Cons/Pembina 13873 Lake Erie 218–F	6561	176
Consumers 13875 Lake Erie 348–H	6554	177
Consumers 13874 Lake Erie 349–H	6553	177

CTY Bruce TWP Eastnor BLK TRAC 4 LOT 21 CON III WBR
WELL NAME Ferndale #1 Eastnor 4-21-III WBR PERMIT 6629 INIT CLASS NPW
OPERATOR English Cross Developments Ltd. TARGET ORD CUR STATUS DH- ABD

DRILLING DATA
CONTRACTOR Bothwell Drilling & Servicing Ltd
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 200.1
BOT LOGGER
ROTRY TOP 2.1 DRILLER 486.4
BOT 486.4 DEEP END
DRLG FLD PLUG BK

DATES
PERMIT 1984-11-14
SPUD 1984-11-21
COMPTD 1984-12-05
OFFCNF 1985-12-05
WRKOVR
ABNDND

COORDINATES
NORTH 129.7 m
SOUTH m
EAST 213.5 m
WEST m
LAT
LONG

SAMPLES
TOP 12.0
BOT 486.2
TRAY 3235

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
345.0 –	Show	

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		11.3	CEM	
178		99.1	CEM	

COMPLETION DATA
GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF OPEN HOLE

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
13.7 –		FRE
33.5 –		FRE
74.6 –		FRE

CORING RECORD

INTERVAL	LOCATION	NO	ABN

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	2.1		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE			
COLUMBUS			
LUCAS			
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			

SILURIAN: A2 ANHYDRITE				
A1 CARBONATE				
A1 SALT				
A1 ANHYDRITE				
GUELPH	10.7			
ERAMOSA				
GOAT ISLAND				
GASPORT/WIARTON	46.0			
DECEW				
ROCHESTER				
IRONDEQUOIT				
REYNALES/FOSSIL HILL	76.0			
THOROLD Wingfield	82.0			
GRIMSBY Dyer Bay	85.0			
CABOT HEAD	94.0			
MANITOULIN	130.0			
WHIRLPOOL				
ORDOVICIAN: QUEENSTON	137.0			
BLUE MOUNTAIN - GEORG BAY	189.0			
COLLINGWOOD				
COBOURG	326.0			
VERULAM	353.0			
KIRKFIELD	390.0			
COBOCONK	426.6			
GULL RIVER	430.0			
SHADOW LAKE	480.7			
CAMBRIAN				
PRECAMBRIAN	482.5			

GEOLOGY BY

CTY Elgin TWP Aldborough BLK TRAC 1 LOT D CON VII
WELL NAME J. McCool #2 Aldborough 1-1-D-VII PERMIT 6433 INIT CLASS DEV
OPERATOR Rayrock Resources Ltd. TARGET DEV CUR STATUS OP

DRILLING DATA
CONTRACTOR Bothwell Drilling & Servicing Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 212.8
BOT LOGGER 133.5
ROTRY TOP 1.8 DRILLER 133.5
BOT 133.5 DEEP END
DRLG FLD Water PLUG BK 133.3

DATES
PERMIT 1984-01-24
SPUD 1984-03-07
COMPTD 1984-03-26
OFFCNF 1984-04-26
WRKOVR
ABNDND

COORDINATES
NORTH m
SOUTH 64.0 m
EAST m
WEST 64.0 m
LAT 42-33-14
LONG 81-43-41

SAMPLES
TOP 55.0
BOT 128.9
TRAY 1765

INITIAL GAS RECORD

INTERVAL	FLOW	SIP

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	29.8	89.0	CEM	
114	14.1	128.9	CEM	

COMPLETION DATA
GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF OPEN HOLE

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY
1.4 – 131.4	GRNL	Computalog
126.2 – 133.5	DENL	Computalog

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
132.6 –		MIN

CORING RECORD

INTERVAL	LOCATION	NO	ABN
128.9 – 132.6	COM		Y

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.8		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	77.3		
COLUMBUS			
LUCAS	121.0		
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			

SILURIAN: A2 ANHYDRITE				
A1 CARBONATE				
A1 SALT				
A1 ANHYDRITE				
GUELPH				
ERAMOSA				
GOAT ISLAND				
GASPORT/WIARTON				
DECEW				
ROCHESTER				
IRONDEQUOIT				
REYNALES/FOSSIL HILL				
THOROLD				
GRIMSBY				
CABOT HEAD				
MANITOULIN				
WHIRLPOOL				
ORDOVICIAN: QUEENSTON				
BLUE MOUNTAIN - GEORG BAY				
COLLINGWOOD				
COBOURG				
VERULAM				
KIRKFIELD				
COBOCONK				
GULL RIVER				
SHADOW LAKE				
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY Debra K. Parker

CTY: Elgin TWP: Aldborough BLK: TRAC: 1-5 LOT: 14 CON: XIII

WELL NAME: Eagle #4 Aldborough 1-5-14-XIII PERMIT: 6600 INIT CLASS: NPW

OPERATOR: TARGET: DEV CUR STATUS: DH-Abd

DRILLING DATA		DATES		COORDINATES		SAMPLES	
CONTRACTOR: W & G Waterwells Ltd.		PERMIT: 1984-09-21		NORTH:	m	TOP: 88.0	
RIG TYPE: ROT	DEPTHS	SPUD: 1984-09-19		SOUTH: 910.6	m	BOT: 149.0	
CABLE TOP:	KB ELEV: 195.4	COMPTD: 1984-09-24		EAST:	m	TRAY: 1844	
BOT:	LOGGER:	OFFCNF: 1985-09-24		WEST: 89.9	m		
ROTRY TOP: 1.5	DRILLER: 158.5	WRKOVR:		LAT: 42-32-44			
BOT: 158.5	DEEP END:	ABNOND: 1984-09-26		LONG: 81-34-40			
DRLG FLD:	PLUG BK:						

INITIAL GAS RECORD			CASING AND TUBING RECORD					COMPLETION DATA	
INTERVAL	FLOW	SIP	DIAM	WEIGHT	SET AT	HOW SET	RECOV	GAS:	$10^3 m^3/d$
–			178	28.3	72.5	CEM		OIL:	m^3/d
–								SIP:	kPa
–								FORM:	
–								INTRVL:	m
–									m
–									m

INITIAL OIL RECORD			LOGGING RECORD				
INTERVAL	FLOW	DENSITY	INTERVAL	TYPE	COMPANY	PERF ☐	OPEN HOLE ☐
–			–			REMARKS	
–			–				
–			–				
–			–				
–			–				

INITIAL WATER RECORD			CORING RECORD			
INTERVAL	STAT LEV	TYPE	INTERVAL	LOCATION	NO	mm
137.2– 146.3	70.0	SUL	–			
–			–			
–			–			
–			–			
–			–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK					
	KB / LAKE LEVEL	0				A2 ANHYDRITE			
	DRIFT / LAKE BOTTOM	1.5				A1 CARBONATE			
DEVONIAN	PORT LAMBTON					A1 SALT			
	KETTLE POINT					A1 ANHYDRITE			
	HAMILTON	79.3				GUELPH			
	MARCELLUS					ERAMOSA			
	DUNDEE	109.7				GOAT ISLAND			
	COLUMBUS				SILURIAN	GASPORT/WARTON			
	LUCAS					DECEW			
	AMHERSTBURG					ROCHESTER			
	SYLVANIA					IRONDEQUOIT			
	BOIS BLANC					REYNALES/FOSSIL HILL			
	SPRINGVALE					THOROLD			
	ORISKANY					GRIMSBY			
	BASS ISLANDS					CABOT HEAD			
	G SHALE					MANITOULIN			
	F SHALE					WHIRLPOOL			
	F SALT					QUEENSTON			
	E CARBONATE					BLUE MOUNTAIN - GEORG. BAY			
SILURIAN	D SALT/EQUIVALENT				ORDOVICIAN	COLLINGWOOD			
	C SHALE					COBOURG			
	B MARKER					VERULAM			
	B EQUIVALENT					KIRKFIELD			
	B SALT					COBOCONK			
	B ANHYDRITE					GULL RIVER			
	A2 CARBONATE					SHADOW LAKE			
	A2 SALT					CAMBRIAN			
GEOLOGY BY:						PRECAMBRIAN			

CTY: Elgin TWP: Aldborough BLK: TRAC: 6 LOT: 15 CON: XII

WELL NAME: Brett Dawson #1 Aldborough 15-XII PERMIT: 6570 INIT CLASS: NPW

OPERATOR: H. Brett & Associates Ltd. TARGET: DEV CUR STATUS: DH-Abd

DRILLING DATA		DATES		COORDINATES		SAMPLES	
CONTRACTOR: Bothwell Drilling & Servicing Ltd.		PERMIT: 1984-08-14		NORTH: 464.2	m	TOP: 75.0	
RIG TYPE: ROT	DEPTHS	SPUD: 1984-10-10		SOUTH:	m	BOT: 134.1	
CABLE TOP:	KB ELEV: 207.7	COMPTD: 1984-10-19		EAST: 90.2	m	TRAY: 257	
BOT:	LOGGER:	OFFCNF: 1985-10-19		WEST:	m		
ROTRY TOP: 1.5	DRILLER: 134.0	WRKOVR:		LAT: 42-33-23			
BOT: 134.0	DEEP END:	ABNOND: 1984-10-19		LONG: 81-35-15			
DRLG FLD:	PLUG BK:						

INITIAL GAS RECORD			CASING AND TUBING RECORD					COMPLETION DATA	
INTERVAL	FLOW	SIP	DIAM	WEIGHT	SET AT	HOW SET	RECOV	GAS:	$10^3 m^3/d$
–			273	60.0	6.7	CEM		OIL:	m^3/d
–			178	25.0	88.0	CEM		SIP:	kPa
–								FORM:	
–								INTRVL:	m
–									m
–									m

INITIAL OIL RECORD			LOGGING RECORD				
INTERVAL	FLOW	DENSITY	INTERVAL	TYPE	COMPANY	PERF ☐	OPEN HOLE ☐
–			–			REMARKS	
–			–				
–			–				
–			–				
–			–				

INITIAL WATER RECORD			CORING RECORD			
INTERVAL	STAT LEV	TYPE	INTERVAL	LOCATION	NO	mm
3.0 –		FRE	–			
91.0 –		FRE	–			
–			–			
–			–			
–			–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK					
	KB / LAKE LEVEL	0				A2 ANHYDRITE			
	DRIFT / LAKE BOTTOM	1.5				A1 CARBONATE			
DEVONIAN	PORT LAMBTON					A1 SALT			
	KETTLE POINT					A1 ANHYDRITE			
	HAMILTON	75.3				GUELPH			
	MARCELLUS					ERAMOSA			
	DUNDEE	113.0				GOAT ISLAND			
	COLUMBUS				SILURIAN	GASPORT/WARTON			
	LUCAS					DECEW			
	AMHERSTBURG					ROCHESTER			
	SYLVANIA					IRONDEQUOIT			
	BOIS BLANC					REYNALES/FOSSIL HILL			
	SPRINGVALE					THOROLD			
	ORISKANY					GRIMSBY			
	BASS ISLANDS					CABOT HEAD			
	G SHALE					MANITOULIN			
	F SHALE					WHIRLPOOL			
	F SALT					QUEENSTON			
	E CARBONATE					BLUE MOUNTAIN - GEORG. BAY			
SILURIAN	D SALT/EQUIVALENT				ORDOVICIAN	COLLINGWOOD			
	C SHALE					COBOURG			
	B MARKER					VERULAM			
	B EQUIVALENT					KIRKFIELD			
	B SALT					COBOCONK			
	B ANHYDRITE					GULL RIVER			
	A2 CARBONATE					SHADOW LAKE			
	A2 SALT					CAMBRIAN			
GEOLOGY BY:						PRECAMBRIAN			

CTY Elgin TWP Aldborough BLK TRAC 1 LOT 15 CON XIII
WELL NAME Eagle et al #2 Aldborough 1-1-15 XIII PERMIT 6580 INIT CLASS NPW
OPERATOR TARGET DEV CUR STATUS OS - ABD

DRILLING DATA
CONTRACTOR
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 199.4
BOT LOGGER 153.3
ROTRY TOP 1.2 DRILLER 153.3
BOT 153.3 DEEP END
DRLG FLD Sulphur Water PLUG BK

DATES
PERMIT 1984-08-22
SPUD 1984-08-23
COMPTD 1984-08-25
OFFCNF 1985-08-25
WRKOVR
ABNDND 1986-06-25

COORDINATES
NORTH m
SOUTH 109.2 m
EAST m
WEST 74.7 m
LAT 42-33-17
LONG 81-34-43

SAMPLES
TOP 76.0
BOT 153.3
TRAY 28

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	25.3	91.4	CEM	

COMPLETION DATA
GAS $10^3m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
105.2 –	Show	
122.8 –	Show	
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 150.5	GRNL	Computalog
91.0 – 153.0	DENL	"
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
105.2 –		SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.2		
PORT LAMBTON			
KETTLE POINT			
HAMILTON	75.0		
MARCELLUS			
DUNDEE	90.7		
COLUMBUS	139.0		
LUCAS	145.7		
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Elgin TWP Aldborough BLK TRAC 3-1 LOT 15 CON XIII
WELL NAME Eagle #1 Aldborough 3-1-15-XIII PERMIT 6515 INIT CLASS NPW
OPERATOR Marko Maletin TARGET DEV CUR STATUS OS-ABD

DRILLING DATA
CONTRACTOR Marsh Drilling Contractor's Ltd.
RIG TYPE DEPTHS
CABLE TOP KB ELEV 200.2
BOT LOGGER 151.0
ROTRY TOP DRILLER 152.0
BOT DEEP END
DRLG FLD Formation Water PLUG BK

DATES
PERMIT 1984-05-08
SPUD 1984-05-08
COMPTD 1984-07-16
OFFCNF 1985-07-16
WRKOVR
ABNDND 1984-07-18

COORDINATES
NORTH m
SOUTH 231.8 m
EAST 359.8 m
WEST m
LAT 42-33-10
LONG 81-34-45

SAMPLES
TOP 79.0
BOT 152.1
TRAY 4

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
86.0 –	Show	
93.0 – 94.5	Show	
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	25.3	79.3	SHO	
140	20.8	94.2	CEM	

COMPLETION DATA
GAS $10^3m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
91.0 – 94.5	Show	
97.5 – 98.8	Show	
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0 – 148.0	GRNL	Computalog
94.0 – 150.0	DENL	"
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
89.9 –		FRE
93.0 – 94.5		SUL
107.3 –		SUL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	0.3		
PORT LAMBTON			
KETTLE POINT			
HAMILTON	78.7		
MARCELLUS			
DUNDEE	92.0		
COLUMBUS	141.0		
LUCAS	146.4		
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY: Elgin TWP: Aldborough BLK: TRAC: 3-5 LOT: 16 CON: XII
WELL NAME: Cons/OEC 33833 Aldborough 3-5-16-XII PERMIT: 6564 INIT CLASS: BD
OPERATOR: The Consumers' Gas Company Ltd. TARGET: DEV CUR STATUS: BD-ABD

DRILLING DATA
CONTRACTOR: W.G. Water Wells Ltd.
RIG TYPE: ROT DEPTHS
CABLE TOP: KB ELEV: 203.4
BOT: LOGGER: 183.0
ROTRY TOP: 1.0 DRILLER: 183.0
BOT: 183.0 DEEP END:
DRLG FLD: BRINE PLUG BK:

DATES
PERMIT: 1984-07-30
SPUD: 1984-12-01
COMPTD: 1984-12-18
OFFCNF: 1985-12-18
WRKOVR:
ABNDND: 1986-10-22

COORDINATES
NORTH: 449.6 m
SOUTH: m
EAST: m
WEST: 231.4 m
LAT:
LONG:

SAMPLES
TOP: 80.2
BOT: 93.6
TRAY: 7042

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	34.0	80.8	CEM	
60	6.9	146.5	HAN	

COMPLETION DATA
GAS: $10^3 m^3/d$
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
98.0 – 98.5	Show	
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
10.0 – 172.3	GRL	Schlumberger
55.3 – 179.4	SONL	"
68.0 – 178.5	LATL	"
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☐
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
108.5 – 110.6		SUL
158.0 – 180.0		SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ABA
93.6 – 107.3	PRL		
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.0		
PORT LAMBTON			
KETTLE POINT			
HAMILTON	76.3		
MARCELLUS			
DUNDEE	91.2		
COLUMBUS	139.6		
LUCAS	143.2		
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
QUEENSTON			
BLUE MOUNTAIN - GEORG. BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY: Elgin TWP: Aldborough BLK: TRAC: 8 LOT: 16 CON: XII
WELL NAME: Cons/OEC 33836 Aldborough 3-8-16-XII PERMIT: 6523 INIT CLASS: NFW
OPERATOR: The Consumers Gas Company Ltd. TARGET: DEV CUR STATUS: OP

DRILLING DATA
CONTRACTOR: W. G. Waterwells Ltd.
RIG TYPE: ROT DEPTHS
CABLE TOP: KB ELEV: 204.2
BOT: LOGGER: 165.2
ROTRY TOP: 1.5 DRILLER: 165.5
BOT: 165.5 DEEP END:
DRLG FLD: Brine PLUG BK: 133.0

DATES
PERMIT: 1984-05-28
SPUD: 1984-06-04
COMPTD: 1984-06-08
OFFCNF: 1985-06-08
WRKOVR:
ABNDND:

COORDINATES
NORTH: 77.4 m
SOUTH: m
EAST: m
WEST: 213.4 m
LAT: 42-33-33
LONG: 81-34-34

SAMPLES
TOP: 90.0
BOT: 165.5
TRAY: 27

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
88.0 – 92.5		
105.8 – 106.5		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	25.8	88.1	CEM	
60	7.0	105.3	SUS	

COMPLETION DATA
GAS: $10^3 m^3/d$ 137.3
OIL: m^3/d
SIP: kPa
FORM: Dundee
INTRVL: 105.8-109.0 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
105.8 – 109.0		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
77.0 – 161.3	SONL	Schlumberger
80.0 – 155.3	LATL	"
80.0 – 162.4	CVBL	"
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☒
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
39.5 – 51.8		FRE
139.7 – 143.7		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ABA
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.5		
PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	92.5		
COLUMBUS			
LUCAS	143.7		
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
QUEENSTON			
BLUE MOUNTAIN - GEORG. BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY: Debra K. Parker

CTY: Elgin TWP: Aldborough BLK: TRAC: 3-1 LOT: 16 CON: XIII
WELL NAME: Cons/OEC 33835 Aldborough 3-1-16-XIII PERMIT: 6565 INIT CLASS: DEV
OPERATOR: The Consumers' Gas Company Ltd. TARGET: DEV CUR STATUS: OP

DRILLING DATA

CONTRACTOR: W.G. Water Wells Ltd.
RIG TYPE: Rotary DEPTHS
CABLE TOP: KB ELEV: 206.0
BOT: LOGGER: 159.5
ROTRY TOP: 1.5 DRILLER: 159.4
BOT: 159.4 DEEP END:
DRLG FLD: Fresh Water PLUG BK:

DATES

PERMIT: 1984-07-30
SPUD: 1984-08-07
COMPTD: 1984-08-13
OFFCNF: 1984-09-13
WRKOVR:
ABNDND:

COORDINATES

NORTH: m
SOUTH: 281.4 m
EAST: m
WEST: 228.6 m
LAT: 42-33-23
LONG: 81-34-24

SAMPLES

TOP: 98.5
BOT: 159.4
TRAY: 34

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
111.2 – 111.3	Show	
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	25.8	92.8	CEM	
6.0	7.0	135.6	HAN	

COMPLETION DATA

GAS: $10^3 m^3/d$
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
111.2 – 111.3	Show	
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
83.7 – 155.0	DIFS	Schlumberger
49.5 – 155.5	SONL	"
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☒

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
111.2 – 111.3		SAL
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO.	Abn.
104.6 – 113.7	Co.		N
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.5		
PORT LAMBTON			
KETTLE POINT			
HAMILTON	78.2		
MARCELLUS			
DUNDEE	96.8		
COLUMBUS	144.0		
LUCAS	147.8		
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
QUEENSTON			
BLUE MOUNTAIN - GEORG. BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY:

CTY: Elgin TWP: Aldborough BLK: TRAC: 3-7 LOT: 17 CON: XII
WELL NAME: Cons/OEC 33834 Aldborough 17-XII PERMIT: 6566 INIT CLASS: DEV
OPERATOR: The Consumers' Gas Company Ltd. TARGET: DEV CUR STATUS: OP

DRILLING DATA

CONTRACTOR: W.G. Water Wells Ltd.
RIG TYPE: ROT DEPTHS
CABLE TOP: KB ELEV: 207
BOT: LOGGER: 111.6
ROTRY TOP: 1.0 DRILLER: 110.6
BOT: 110.6 DEEP END:
DRLG FLD: Brine PLUG BK:

DATES

PERMIT: 1984-07-30
SPUD: 1984-08-14
COMPTD: 1984-08-22
OFFCNF: 1984-09-22
WRKOVR:
ABNDND:

COORDINATES

NORTH: 97.2 m
SOUTH: m
EAST: 75.4 m
WEST: m
LAT: 42-33-40
LONG: 81-34-26

SAMPLES

TOP: 70.8
BOT: 108.4
TRAY: 112

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
95.2 – 96.0	Show	
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	25.8	94.2	CEM	
60	7.0	103.8	HAN	

COMPLETION DATA

GAS: $10^3 m^3/d$
OIL: 53.5 m^3/d
SIP: 840 kPa
FORM: Dundee
INTRVL: 94.5 – 109.8 m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
95.2 – 96.0	25.4	
95.2 – 105.3	31.2	
95.2 – 111.6	106.8	
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 109.2	GRNL	Computalog
93.2 – 111.0	DENL	"
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☒

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO.	Abn.
96.8 – 110.3			N
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.0		
PORT LAMBTON			
KETTLE POINT			
HAMILTON	79.0		
MARCELLUS	94.0		
DUNDEE			
COLUMBUS			
LUCAS			
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
QUEENSTON			
BLUE MOUNTAIN - GEORG. BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY:

CTY: Elgin TWP: Aldborough BLK: TRAC: 3-5 LOT: 17 CON: XII
WELL NAME: Cons/OEC 33828 Aldborough 3-5-17-XII PERMIT: 6663 INIT CLASS: NPW
OPERATOR: The Consumers' Gas Company Ltd. TARGET: DEV CUR STATUS: OS- ABD

DRILLING DATA
CONTRACTOR: W.G. Water Wells Ltd.
RIG TYPE: ROT DEPTHS
CABLE TOP: KB ELEV: 206.7
BOT: LOGGER: 158.8
ROTRY TOP: 1.0 DRILLER: 159.3
BOT: 159.3 DEEP END:
DRLG FLD: Brine PLUG BK:

DATES
PERMIT: 1984-12-18
SPUD: 1984-12-06
COMPTD: 1984-12-12
OFFCNF: 1985-12-12
WRKOVR:
ABNDND: 1986-02-16

COORDINATES
NORTH: 485.8 m
SOUTH: m
EAST: m
WEST: 226.3 m
LAT: 42-33-57
LONG: 81-34-29

SAMPLES
TOP: 85.0
BOT: 159.4
TRAY: 212

INITIAL GAS RECORD

INTERVAL		FLOW	SIP
--			
--			
--			
--			
--			

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	34.0	84.9	CEM	

COMPLETION DATA
GAS: $10^3m^3/d$
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m
m

INITIAL OIL RECORD

INTERVAL		FLOW	DENSITY
102.8	103.0	Show	
111.5	112.5	Show	
148.0	--	Show	
--			
--			

LOGGING RECORD

INTERVAL		TYPE	COMPANY
21.0	155.0	SONL	Schlumberger
11.0	148.0	GRL	"
82.0	15[illegible].8	LATL	"
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PERF ☐ OPEN HOLE ☒
REMARKS

INITIAL WATER RECORD

INTERVAL		STAT LEV	TYPE
89.3	89.5		SUL
111.5	112.5		FRE
--			
--			
--			

CORING RECORD

INTERVAL		LOCATION	NO	mm
98.4	107.6	PRL		
--				
--				
--				
--				

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	78.1		
	MARCELLUS			
	DUNDEE	95.5		
	COLUMBUS	143.4		
	LUCAS	148.2		
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
SILURIAN	GASPORT/WARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY:

CTY: Elgin TWP: Aldborough BLK: TRAC: 3-2 LOT: 17 CON: XIII
WELL NAME: Cons/OEC 33831 Aldborough 3-2-17-XIII PERMIT: 6632 INIT CLASS: NPW
OPERATOR: The Consumers' Gas Company Ltd. TARGET: DEV CUR STATUS: OP

DRILLING DATA
CONTRACTOR: W.G. Water Wells Limited
RIG TYPE: ROT DEPTHS
CABLE TOP: KB ELEV: 205.4
BOT: LOGGER: 107.3
ROTRY TOP: 1.0 DRILLER: 109.4
BOT: 109.4 DEEP END:
DRLG FLD: Air PLUG BK:

DATES
PERMIT: 1984-11-23
SPUD: 1984-11-23
COMPTD: 1984-11-26
OFFCNF: 1985-11-26
WRKOVR:
ABNDND:

COORDINATES
NORTH: m
SOUTH: 309.8 m
EAST: 75.4 m
WEST: m
LAT: 42-33-29
LONG: 81-34-13

SAMPLES
TOP: 73.2
BOT: 109.4
TRAY: 196

INITIAL GAS RECORD

INTERVAL		FLOW	SIP
102.4	--	Show	
--			
--			
--			
--			

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	25.8	84.8	CEM	

COMPLETION DATA
GAS: $10^3m^3/d$
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m
m

INITIAL OIL RECORD

INTERVAL		FLOW	DENSITY
98.5	--	Show	
103.2	103.6	Show	
--			
--			
--			

LOGGING RECORD

INTERVAL		TYPE	COMPANY
10.0	100.5	SNP	Schlumberger
10.0	106.5	DENL	"
--			
--			
--			
--			

PERF ☐ OPEN HOLE ☒
REMARKS

INITIAL WATER RECORD

INTERVAL		STAT LEV	TYPE
--			
--			
--			
--			
--			
--			

CORING RECORD

INTERVAL		LOCATION	NO	mm
--				
--				
--				
--				
--				
--				

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	74.1		
	MARCELLUS			
	DUNDEE	97.7		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
SILURIAN	GASPORT/WARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY:

CTY Elgin TWP Dunwich BLK TRAC 4 LOT 12 CON Gore
WELL NAME Cons/OEC 3390I Dunwich 4-12-Gore PERMIT 6631 INIT CLASS NPW
OPERATOR The Consumers' Gas Company Ltd. TARGET CAM CUR STATUS DH-Abd

DRILLING DATA
CONTRACTOR Underwater Gas Developers Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 220.4
BOT LOGGER 1169.0
ROTRY TOP 0 DRILLER 1170.0
BOT 1.8 DEEP END
DRLG FLD BRINE PLUG BK

DATES
PERMIT 1984-11-23
SPUD 1984-11-22
COMPTD 1984-11-30
OFFCNF 1985-11-30
WRKOVR
ABNDND 1984-12-01

COORDINATES
NORTH m
SOUTH 554.7 m
EAST m
WEST 106.7 m
LAT 42-40-49
LONG 81-31-31

SAMPLES
TOP 108.0
BOT 1170.0
TRAY 9882
9883

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	102.9	CEM	
178	30.0	536.0	CEM	

COMPLETION DATA
GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
PERF [ ] OPEN HOLE [ ]
REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
487.0 – 1161.0	NGRS	Schlumberger
835.0 – 1159.0	LATL	"
496.5 – 1160.8	CNFD	"
–		
–		
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
109.0 – 111.0		SUL
944.0 –		SAL
1124.0 – 1141.5		SAL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	Ann
–			
–			
–			

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.8		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	85.2		
	MARCELLUS	97.0		
	DUNDEE	102.0		
	COLUMBUS			
	LUCAS	123.5		
	AMHERSTBURG	150.2		
	SYLVANIA			
	BOIS BLANC	204.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	264.0		
	G SHALE	288.1		
	F SHALE	301.7		
	F SALT			
	E CARBONATE	330.0		
	D SALT/EQUIVALENT	363.1		
	C SHALE	366.0		
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	387.0		
	A2 CARBONATE	393.0		
	A2 SALT			

	A2 ANHYDRITE	417.0		
	A1 CARBONATE	428.2		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	435.1		
	ERAMOSA			
	GOAT ISLAND	456.0		
	GASPORT/WIARTON	498.0		
	DECEW			
	ROCHESTER	504.0		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	520.2		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	521.7		
	MANITOULIN	551.5		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	561.4		
	BLUE MOUNTAIN - GEORG BAY	698.8		
	COLLINGWOOD			
	COBOURG	864.0		
	VERULAM	891.2		
	KIRKFIELD	947.0		
	COBOCONK	1005.2		
	GULL RIVER	1031.0		
	SHADOW LAKE	1122.9		
CAMBRIAN		1123.8		
PRECAMBRIAN		1141.5		

GEOLOGY BY

CTY Essex TWP Anderdon BLK TRAC LOT 34 CON I
WELL NAME F-1 Anderdon 34-I PERMIT 6445 INIT CLASS SM
OPERATOR Allied Chemical Canada Ltd. TARGET SAL CUR STATUS

DRILLING DATA
CONTRACTOR Bothwell Drilling & Servicing Ltd
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 178.0
BOT LOGGER 377.4
ROTRY TOP 2.1 DRILLER 378.0
BOT 378.0 DEEP END
DRLG FLD DRY PLUG BK 377.4

DATES
PERMIT 1984-06-04
SPUD 1984-05-17
COMPTD 1984-06-04
OFFCNF 1985-06-04
WRKOVR
ABNDND

COORDINATES
NORTH: 174.4 m
SOUTH m
EAST m
WEST 712.9 m
LAT 42-10-21
LONG 83-05-34

SAMPLES
TOP: 15.0
BOT 378.0
TRAY 228

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340		4.3	CEM	
273		29.3	CEM	
178		352.7	CEM	

COMPLETION DATA
GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
PERF [ ] OPEN HOLE [ ]
REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0 – 375.2	GRNL	Computalog
352.7 – 377.6	DENL	Computalog
–		
–		
–		
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
21.9 – 27.1	6.1	FRE
36.9 – 39.3		SUL
73.8 – 75.6		SUL
164.0 – 167.0		SUL
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	Ann
–			
–			
–			

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	2.1		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	50.0		
	SYLVANIA	71.6		
	BOIS BLANC	103.6		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	133.2		
	G SHALE	192.0		
	F SHALE	197.9		
	F SALT			
	E CARBONATE	230.7		
	D SALT/EQUIVALENT			
	C SHALE	274.6		
	B MARKER	294.2		
	B EQUIVALENT	300.2		
	B SALT	306.6		
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY Debra K. Parker

CTY Essex TWP Anderdon BLK TRAC LOT 34 CON I

WELL NAME F-8 Anderdon 34-1 PERMIT 6444 INIT CLASS SM

OPERATOR Allied Chemical Canada Ltd. TARGET SAI. CUR STATUS

DRILLING DATA

CONTRACTOR Bothwell Drilling & Servicing Ltd
RIG TYPE ROT
CABLE TOP
BOT
ROTRY TOP 0
BOT 2.1
DRLG FLD Dry
DEPTHS
KB ELEV 178.0
LOGGER 376.1
DRILLER 378.0
DEEP END
PLUG BK 376.1

DATES

PERMIT 1984-06-04
SPUD 1984-06-11
COMPTD 1984-05-10
OFFCNF 1985-05-10
WRKOVR
ABNDND

COORDINATES

NORTH 174.4 m
SOUTH m
EAST m
WEST 804.4 m
LAT 42-10-21
LONG 83-05-38

SAMPLES

TOP 18.0
BOT 378.0
TRAY 208

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		26.5	CEM	
178		353.6	CEM	
114		359.4	PAC	

COMPLETION DATA

GAS 10³m³/d
OIL m³/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0 – 373.7	GRNL	Computalog
353.6 – 376.4	DENL	Computalog
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☒

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
21.9 – 23.2	9.1	FRE
36.6 – 37.8	---	SUL
73.2 – 73.8		SUL
165.2 – 168.9		SUL
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	MM
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	2.1		
DEVONIAN: PORT LAMBTON	---		
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE			
COLUMBUS			
LUCAS			
AMHERSTBURG	43.7		
SYLVANIA	70.4		
BOIS BLANC	91.1		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	127.4		
G SHALE	191.7		
F SHALE	197.2		
F SALT			
E CARBONATE	229.8		
D SALT/EQUIVALENT			
C SHALE	276.5		
B MARKER	292.9		
B EQUIVALENT	299.2		
B SALT	306.0		
B ANHYDRITE			
A2 CARBONATE	369.4		
A2 SALT			

SILURIAN: A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG. BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Essex TWP Gosfield South BLK: TRAC: 1 LOT: 2 CON: FWD

WELL NAME Gel. #8 Gosfield South 1-2-FWD PERMIT: 6257 INIT CLASS: DEV

OPERATOR Gaiswinkler Enterprises Ltd. TARGET: ORD CUR STATUS: OP

DRILLING DATA

CONTRACTOR W. R. Newport & Sons Ltd.
RIG TYPE: CAB
CABLE TOP: 1.2
BOT: 750.4
ROTRY TOP:
BOT:
DRLG FLD: Fresh H20
DEPTHS
KB ELEV: 192.6
LOGGER: 746.5
DRILLER: 750.4
DEEP END:
PLUG BK: 745.5

DATES

PERMIT: 83-05-30
SPUD: 83-06-29
COMPTD: 84-02-06
OFFCNF: 84-03-06
WRKOVR:
ABNDND:

COORDINATES

NORTH: m
SOUTH: 206.4 m
EAST: 13.7 m
WEST: m
LAT: 42-23-01
LONG: 80-44-40

SAMPLES

TOP: 35.0
BOT: 749.8
TRAY:
8698-8699

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	48.7	21.7	SHO	21.7
219	35.7	34.8	SHO	
178	29.8	448.7	CEM	
114	14.1	747.8	CEM	
0.7	6.0	742.8	HAN	

COMPLETION DATA

GAS: 10³m³/d
OIL: m³/d
SIP: kPa
FORM: Cobourg
INTRVL: 734.6 – 744.6 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
701.0 – 744.3	GRNL	Computalog
721.2 – 746.8	DENL	Computalog
–		
–		
–		
–		

PERF ☒ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
36.6 –	6.1	FRE
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	MM
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.2		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE			
COLUMBUS			
LUCAS			
AMHERSTBURG			
SYLVANIA			
BOIS BLANC	92.0		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	125.0		
G SHALE	182.8		
F SHALE	189.0		
F SALT			
E CARBONATE	207.6		
D SALT/EQUIVALENT			
C SHALE	243.8		
B MARKER	268.0		
B EQUIVALENT			
B SALT			
B ANHYDRITE	287.0		
A2 CARBONATE	290.0		
A2 SALT			

SILURIAN: A2 ANHYDRITE	311.0		
A1 CARBONATE	317.0		
A1 SALT			
A1 ANHYDRITE			
GUELPH	320.0		
ERAMOSA			
GOAT ISLAND	384.0		
GASPORT/WIARTON	411.0		
DECEW	451.0		
ROCHESTER	454.0		
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY	460.0		
CABOT HEAD	466.0		
MANITOULIN	485.0		
WHIRLPOOL			
ORDOVICIAN: QUEENSTON	500.0		
BLUE MOUNTAIN - GEORG. BAY	597.2		
COLLINGWOOD			
COBOURG	721.8		
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Essex TWP Mersea BLK TRAC 8 LOT 8 CON VII

WELL NAME Cons et al 3 3774 Mersea 8-8-VII PERMIT 6436 INIT CLASS NPW

OPERATOR The Consumers' Gas Company Ltd. TARGET ORD CUR STATUS DH-ABD

DRILLING DATA

CONTRACTOR Underwater Gas Developers Ltd.
RIG TYPE ROT
CABLE TOP — BOT
ROTRY TOP 1.8 BOT 1067.0
DRLG FLD Brine

DEPTHS
KB ELEV 194.6
LOGGER 1067.3
DRILLER 1067.0
DEEP END
PLUG BK

DATES

PERMIT 1984-02-03
SPUD 1984-02-14
COMPTD 1984-02-20
OFFCNF 1985-02-20
WRKOVR
ABNDND 1984-02-22

COORDINATES

NORTH 92.4 m
SOUTH m
EAST m
WEST 208.3 m
LAT 42-06-35
LONG 82-35-01

SAMPLES

TOP 53.0
BOT 1066.0
TRAY 6488-6489

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	49.3	CEM	
178	25.0	496.3	CEM	

COMPLETION DATA

GAS $10^3m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
1024.0 – 1031.0		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
466.0 –1057.0	NGRS	Schlumberger
496.5 –1058.5	DLLM	"
42.0 –1057.3	SONL	"
771.8 –1069.0	CBSC	"
45.0 – 501.0	CBLK	"
43.0 –1057.0	CNFD	"
–		

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
33.0 –		FRE
85.0 – 103.0		SUL
350.0 – 360.0		SAL
1032.0 – 1053.0		SAL
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.8		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS	71.8		
	AMHERSTBURG	88.0		
	SYLVANIA			
	BOIS BLANC	114.8		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	156.2		
	G SHALE	200.9		
	F SHALE	208.0		
	F SALT			
	E CARBONATE	232.2		
	D SALT/EQUIVALENT	271.2		
	C SHALE	276.4		
	B MARKER	295.7		
	B EQUIVALENT	301.6		
	B SALT			
	B ANHYDRITE	311.2		
	A2 CARBONATE	316.2		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	335.0		
	A1 CARBONATE	338.2		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	348.6		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WARTON			
	DECEW			
	ROCHESTER	483.7		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	488.7		
	THOROLD			
	GRIMSBY /Dyer Bay	493.7		
	CABOT HEAD	497.5		
	MANITOULIN	519.0		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	542.5		
	BLUE MOUNTAIN - GEORG BAY	629.6		
	COLLINGWOOD			
	COBOURG	771.7		
	VERULAM	802.5		
	KIRKFIELD	837.0		
	COBOCONK	876.8		
	GULL RIVER	899.0		
	SHADOW LAKE	1021.4		
	CAMBRIAN	1023.4		
	PRECAMBRIAN	1048.8		

GEOLOGY BY
Debra K. Parker

CTY Essex TWP Mersea BLK: TRAC 5 LOT 12 CON: A

WELL NAME Consumers et al Mersea 33820 PERMIT 6536 INIT CLASS DEV

OPERATOR The Consumers' Gas Company TARGET ORD CUR STATUS DH-Abd

DRILLING DATA

CONTRACTOR Underwater Gas Dev. Ltd.
RIG TYPE ROT
CABLE TOP — BOT
ROTRY TOP 1.8 BOT 1059.8
DRLG FLD Brine

DEPTHS
KB ELEV 178.6
LOGGER 1059.8
DRILLER 1059.5
DEEP END
PLUG BK

DATES

PERMIT 1984-06-27
SPUD 1984-09-06
COMPTD 1984-09-12
OFFCNF 1984-10-12
WRKOVR
ABNDND 1984-09-14

COORDINATES

NORTH 575.8 m
SOUTH m
EAST m
WEST 107.0 m
LAT 42-01-27
LONG 82-33-31

SAMPLES

TOP 56.0
BOT 1059.0
TRAY 9869
9870

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	52.9	CEM	
178	29.8	480.8	CEM	

COMPLETION DATA

GAS $10^3m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
9.5 – 487.5	CBLY	Schlumberger
38.0 – 1055.5	SONL	"
10.5 – 1046.0	CNFD	"
–		
–		
–		

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
58.0 – 59.0		FRE
132.0 – 135.0		SUL
325.0 – 328.0		SUL
1022.0 – 1041.0		SAL
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	2.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	24.6		
	COLUMBUS			
	LUCAS	53.0		
	AMHERSTBURG	73.7		
	SYLVANIA			
	BOIS BLANC	114.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	151.8		
	G SHALE	179.0		
	F SHALE	186.2		
	F SALT			
	E CARBONATE	211.1		
	D SALT/EQUIVALENT	246.8		
	C SHALE	251.3		
	B MARKER	269.3		
	B EQUIVALENT	275.0		
	B SALT			
	B ANHYDRITE	284.4		
	A2 CARBONATE	291.2		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	310.0		
	A1 CARBONATE	315.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	324.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WARTON			
	DECEW			
	ROCHESTER	452.0		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	457.2		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	462.2		
	MANITOULIN	501.1		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	511.0		
	BLUE MOUNTAIN - GEORG BAY	591.7		
	COLLINGWOOD			
	COBOURG	750.0		
	VERULAM	773.0		
	KIRKFIELD	811.3		
	COBOCONK	849.0		
	GULL RIVER	878.4		
	SHADOW LAKE	994.9		
	CAMBRIAN	997.8		
	PRECAMBRIAN	1040.5		

GEOLOGY BY

CTY Essex | TWP Mersea | BLK | TRAC 5 | LOT 12 | CON I

WELL NAME: Cons et al 33818 Mersea 5-12-I | PERMIT: 6540 | INIT CLASS: DEV

OPERATOR: The Consumer's Gas Company Ltd. | TARGET: ORD | CUR STATUS: OP

DRILLING DATA

CONTRACTOR: Underwater Gas Developers Ltd.
RIG TYPE: Rotary
CABLE TOP: | KB ELEV: 180.4
BOT: | LOGGER: 1068.5
ROTRY TOP: 1.8 | DRILLER: 1068.0
BOT: 1068.0 | DEEP END:
DRLG FLD: Brine | PLUG BK: 825.3

DATES

PERMIT: 1984-06-27
SPUD: 1984-08-15
COMPTD: 1984-08-22
OFFCNF: 1984-09-22
WRKOVR:
ABNDND:

COORDINATES

NORTH: 589.4 m
SOUTH: m
EAST: m
WEST: 195.0 m
LAT: 42-02-14
LONG: 82-33-32

SAMPLES

TOP: 56.0
BOT: 1068.0
TRAY: 9867
9868

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
322.2 – 323.0	Show	
783.0 – 784.0	Show	
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54	49.1	CEM	
178	30	484.9	CEM	
114	14.4	835.6	CEM	

COMPLETION DATA

GAS: $10^3 m^3/d$
OIL: m^3/d
SIP: 8176 kPa
FORM: Cobourg
INTRVL: 771.0 – 785.0 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
783.0 – 784.0	468	
787.5 – 790.5	Show	
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
50.0 – 807.5	CMPL	Schlumberger
18.0 – 1064.2	SONL	"
464.0 – 1067.2	DLLM	"
37.0 – 1055.2	CNFD	"
43.0 – 807.3	CBVD	"
– 818.3	TMPL	COM
–		

PERF ☒ | OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
51.0 – 54.0		FRE
120.0 – 122.0		SUL
322.2 – 324.0		SUL
1030.0 –		SAL
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	MM
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.8		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	19.4		
COLUMBUS			
LUCAS	52.4		
AMHERSTBURG	72.7		
SYLVANIA			
BOIS BLANC	92.5		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	130.6		
G SHALE	180.2		
F SHALE	187.4		
F SALT			
E CARBONATE	212.5		
D SALT/EQUIVALENT	249.8		
C SHALE	255.2		
B MARKER	268.8		
B EQUIVALENT	274.2		
B SALT			
B ANHYDRITE	284.2		
A2 CARBONATE	289.5		
A2 SALT			

A2 ANHYDRITE	307.5		
A1 CARBONATE	309.8		
A1 SALT			
A1 ANHYDRITE			
GUELPH	319.8		
ERAMOSA			
GOAT ISLAND			
GASPORT/MARTON	359.5		
DECEW			
ROCHESTER	464.7		
IRONDEQUOIT			
REYNALES/FOSSIL HILL	471.0		
THOROLD			
GRIMSBY			
CABOT HEAD	475.0		
MANITOULIN	515.6		
WHIRLPOOL			
QUEENSTON	526.0		
BLUE MOUNTAIN - GEORG BAY	610.0		
COLLINGWOOD			
COBOURG	767.4		
VERULAM	787.8		
KIRKFIELD	824.7		
COBOCONK	859.8		
GULL RIVER	889.0		
SHADOW LAKE	1002.7		
CAMBRIAN	1006.0		
PRECAMBRIAN	1050.3		

GEOLOGY BY

CTY Essex | TWP Mersea | BLK | TRAC 7 | LOT 12 | CON I

WELL NAME: Consumers et al 33775 Mersea 7-12-I | PERMIT: 6538 | INIT CLASS: DEV

OPERATOR: The Consumer's Gas Company Ltd. | TARGET: ORD | CUR STATUS: OP

DRILLING DATA

CONTRACTOR: Underwater Gas Developers Ltd.
RIG TYPE: BOT
CABLE TOP: | KB ELEV: 179.2
BOT: | LOGGER: 1067.0
ROTRY TOP: 1.8 | DRILLER: 1068.0
BOT: | DEEP END:
DRLG FLD: Brine | PLUG BK: 865.0

DATES

PERMIT: 1984-06-27
SPUD: 1984-07-10
COMPTD: 1984-07-22
OFFCNF: 1984-08-22
WRKOVR:
ABNDND:

COORDINATES

NORTH: 122.0 m
SOUTH: m
EAST: m
WEST: 428.4 m
LAT: 42-02-00
LONG: 82-33-43

SAMPLES

TOP: 60.0
BOT: 1068.0
TRAY: 6508
6509

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
765.0 – 779.0	Show	
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	58.8	CEM	
178	30.0	470.1	CEM	
114	14.0	852.7	CEM	

COMPLETION DATA

GAS: $10^3 m^3/d$
OIL: 209.8 m^3/d
SIP: kPa
FORM: Cobourg
INTRVL: 765.0 – 779.0 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
765.9 – 779.0	209.8	
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
31.0 – 1054.0	SONL	Schlumberger
444.8 – 1055.0	DLLM	"
746.7 – 1066.5	CBLY	"
36.5 – 470.7	CBLY	"
38.0 – 1064.5	CNFD	"
–		
–		

PERF ☐ | OPEN HOLE ☐

REMARKS

Ran 2 plugs from:
865.0 - 961.0
971.0 - 1067.0

Sample & logs disagree

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
61.0 – 62.0		FRE
121.0 – 125.0		SUL
339.0 – 342.0		SAL
423.0 – 425.0		SAL
790.0 – 792.0		SAL
1035.0 – 1049.0		SAL

CORING RECORD

INTERVAL	LOCATION	NO	MM
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.8		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	20.0		
COLUMBUS			
LUCAS	52.4		
AMHERSTBURG	73.7		
SYLVANIA			
BOIS BLANC	95.0		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	136.5		
G SHALE	180.9		
F SHALE	188.3		
F SALT			
E CARBONATE	217.5		
D SALT/EQUIVALENT	249.3		
C SHALE	255.2		
B MARKER	271.2		
B EQUIVALENT	277.2		
B SALT			
B ANHYDRITE	286.6		
A2 CARBONATE	294.8		
A2 SALT			

A2 ANHYDRITE	312.3		
A1 CARBONATE	314.0		
A1 SALT			
A1 ANHYDRITE			
GUELPH	320.2		
ERAMOSA			
GOAT ISLAND			
GASPORT/MARTON	434.8		
DECEW			
ROCHESTER	461.9		
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD	472.8		
MANITOULIN	512.5		
WHIRLPOOL			
QUEENSTON	522.2		
BLUE MOUNTAIN - GEORG BAY	607.9		
COLLINGWOOD			
COBOURG	764.9		
VERULAM	792.7		
KIRKFIELD	823.2		
COBOCONK	855.5		
GULL RIVER	888.7		
SHADOW LAKE	994.4		
CAMBRIAN	997.8		
PRECAMBRIAN	1048.4		

GEOLOGY BY

CTY Essex TWP Mersea BLK TRAC 3 LOT 13 CON A

WELL NAME Consumers et al 33817 Mersea 3-13-A PERMIT 6539 INIT CLASS DEV

OPERATOR The Consumers Gas Comp ANY Ltd. TARGET ORD CUR STATUS OP

DRILLING DATA

CONTRACTOR Underwater Gas Developers Ltd.

RIG TYPE ROT DEPTHS

CABLE TOP KB ELEV 178.8

BOT LOGGER 1062.5

ROTRY TOP 1.8 DRILLER 1062.0

BOT 1062.0 DEEP END

DRLG FLD Brine PLUG BK 865.9

DATES

PERMIT 1984-06-27

SPUD 1984-07-31

COMPTD 1984-08-12

OFFCNF 1984-09-12

WRKOVR

ABNDND

COORDINATES

NORTH m

SOUTH 575.8 m

EAST 195.0 m

WEST m

LAT 41-01-35

LONG 82-33-16

SAMPLES

TOP 73.0

BOT 1060.0

TRAY 9663

9664

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
766.0 –	Show	
776.0 –	Show	
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	58.8	CEM	
178	30.0	471.2	CEM	
114	14.0	856.2	CEM	

COMPLETION DATA

GAS $10^3m^3/d$

OIL 114.2 m^3/d

SIP kPa

FORM Cobourg

INTRVL 775.5 – 780.0 m

m

m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
775.5 – 780.0	114.2	
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
24.7 – 1056.5	SONL	Schlumberger
474.0 – 1059.3	DLIM	"
49.0 – 1050.0	CNFD	"
55.5 – 476.0	CYBL	"
–		
–		
–		

PERF X OPEN HOLE

REMARKS

Ran plugs from:

982 – 1062.5

890.0 – 970.0

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
122.0 – 131.0		SUL
1051.0–		SAL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.8		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	20.0		
COLUMBUS			
LUCAS	57.8		
AMHERSTBURG	78.2		
SYLVANIA			
BOIS BLANC	96.8		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	136.0		
G SHALE	187.0		
F SHALE	194.4		
F SALT			
E CARBONATE	219.2		
D SALT/EQUIVALENT	256.6		
C SHALE	260.7		
B MARKER	277.0		
B EQUIVALENT	282.5		
B SALT			
B ANHYDRITE	292.2		
A2 CARBONATE	298.7		
A2 SALT			

A2 ANHYDRITE	319.5		
A1 CARBONATE	324.4		
A1 SALT			
A1 ANHYDRITE			
GUELPH	330.8		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER	457.2		
IRONDEQUOIT			
REYNALES/FOSSIL HILL	462.5		
THOROLD			
GRIMSBY			
CABOT HEAD	467.4		
MANITOULIN	507.0		
WHIRLPOOL			
ORDOVICIAN: QUEENSTON	517.0		
BLUE MOUNTAIN - GEORG BAY	607.3		
COLLINGWOOD			
COBOURG	761.2		
VERULAM	782.3		
KIRKFIELD	814.0		
COBOCONK	855.0		
GULL RIVER	887.0		
SHADOW LAKE	994.5		
CAMBRIAN	997.2		
PRECAMBRIAN	1040.7		

GEOLOGY BY

CTY Essex TWP Mersea BLK TRAC 3 LOT 14 CON A

WELL NAME Consumers et al 33819 Mersea 3-14-A PERMIT 6537 INIT CLASS DEV

OPERATOR The Consumers Gas Company Ltd. TARGET ORD CUR STATUS SUS

DRILLING DATA

CONTRACTOR Underwater Gas Dev. Ltd.

RIG TYPE ROT DEPTHS

CABLE TOP KB ELEV 178.9

BOT LOGGER 1037.0

ROTRY TOP 1.8 DRILLER 1036.4

BOT 1036.4 DEEP END

DRLG FLD PLUG BK 820.0

DATES

PERMIT 1984-06-27

SPUD 1984-08-30

COMPTD 1984-09-05

OFFCNF 1984-10-05

WRKOVR

ABNDND

COORDINATES

NORTH m

SOUTH 575.8 m

EAST 107.0 m

WEST m

LAT 42-01-35

LONG 82-32-55

SAMPLES

TOP 56.0

BOT 1033.0

TRAY 9863

9864

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
781.0–	Show	
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	53.8	CEM	
178	30.0	471.1	CEM	
114	14.4	813.8	CEM	

COMPLETION DATA

GAS $10^3m^3/d$

OIL m^3/d

SIP kPa

FORM

INTRVL m

m

m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
748.0 – 1031.0	SONL	Schlumberger
473.6 – 1034.0	DIL	"
46.3 – 1024.0	CNFD	"
–		
–		
–		
–		

PERF OPEN HOLE

REMARKS

Plug #1 964.0 – 1036.0 using 70 sacks of cement plus 2% $CaCl_2$

Plug #2 820.0 – 910.0 using 70 sacks of cement plus 2% $CaCl_2$

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.8		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	25.0		
COLUMBUS			
LUCAS	54.7		
AMHERSTBURG	64.4		
SYLVANIA			
BOIS BLANC	101.7		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	121.7		
G SHALE	168.5		
F SHALE	175.5		
F SALT			
E CARBONATE	200.3		
D SALT/EQUIVALENT	236.5		
C SHALE	241.5		
B MARKER	255.0		
B EQUIVALENT	260.6		
B SALT			
B ANHYDRITE	270.5		
A2 CARBONATE	275.5		
A2 SALT			

A2 ANHYDRITE	293.2		
A1 CARBONATE	295.8		
A1 SALT			
A1 ANHYDRITE			
GUELPH	300.5		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER	460.5		
IRONDEQUOIT			
REYNALES/FOSSIL HILL	466.4		
THOROLD			
GRIMSBY			
CABOT HEAD	470.9		
MANITOULIN	508.7		
WHIRLPOOL			
ORDOVICIAN: QUEENSTON	518.4		
BLUE MOUNTAIN - GEORG BAY	603.0		
COLLINGWOOD			
COBOURG	757.5		
VERULAM	780.4		
KIRKFIELD	820.2		
COBOCONK	856.0		
GULL RIVER	885.2		
SHADOW LAKE	1000.4		
CAMBRIAN	1004.8		
PRECAMBRIAN			

GEOLOGY BY

CTY Essex TWP Mersea BLK TRAC 1 LOT 16 CON A
WELL NAME C.E.L. #15 Mersea 1-16-A PERMIT 6492 INIT CLASS NPW
OPERATOR Gaiswinkler Enterprises Limited TARGET ORD CUR STATUS GS-Abd

DRILLING DATA		DATES		COORDINATES		SAMPLES	
CONTRACTOR		PERMIT	1984-05-02	NORTH	m	TOP	29.0
RIG TYPE CAB	DEPTHS	SPUD	1984-05-11	SOUTH 118.9	m	BOT	903.7
CABLE TOP 1.5	KB ELEV 177.8	COMPTD	1984-10-04	EAST	m	TRAY	9842
BOT 903.7	LOGGER 877.5	OFFCNF	1985-10-04	WEST 143.3	m		9843
ROTRY TOP	DRILLER 901.7	WRKOVR		LAT 42-01-48			
BOT	DEEP END	ABNDND	1984-10-26	LONG 82-31-45			
DRLG FLD	PLUG BK						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
300.0 –	Show	
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	71.4	6.4	SHO	6.4
273	60.3	29.3	SHO	29.3
219	35.7	41.5	SHO	7.0
178	29.8	463.0	CEM	433.3

COMPLETION DATA

GAS 10³m³/d
OIL m³/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
213.4 – 875.0	GRNL	Computalog
759.6 – 877.2	DENL	"
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
67.0 –	9.0	BRA
290.0 –		SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.5		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	29.2		
COLUMBUS			
LUCAS	39.0		
AMHERSTBURG	57.7		
SYLVANIA			
BOIS BLANC	79.1		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	115.0		
G SHALE	156.9		
F SHALE	164.1		
F SALT			
E CARBONATE	187.3		
D SALT/EQUIVALENT	227.7		
C SHALE	230.1		
B MARKER	253.9		
B EQUIVALENT	259.7		
B SALT			
B ANHYDRITE	273.1		
A2 CARBONATE	276.8		
A2 SALT			

SILURIAN: A2 ANHYDRITE	292.9		
A1 CARBONATE	296.3		
A1 SALT			
A1 ANHYDRITE	297.8		
GUELPH	298.4		
ERAMOSA			
GOAT ISLAND			
GASPORT/MARTON			
DECEW			
ROCHESTER	455.7		
IRONDEQUOIT			
REYNALES/FOSSIL HILL	461.2		
THOROLD			
GRIMSBY			
CABOT HEAD	465.4		
MANITOULIN	505.1		
WHIRLPOOL			
ORDOVICIAN: QUEENSTON	514.8		
BLUE MOUNTAIN - GEORG BAY	600.2		
COLLINGWOOD			
COBOURG	759.6		
VERULAM	782.7		
KIRKFIELD	826.6		
COBOCONK	858.6		
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Essex TWP Rochester BLK TRAC 7 LOT 19 CON V EBR
WELL NAME Revallee #2 Rochester 7-19-V EBR PERMIT 6520 INIT CLASS DEV
OPERATOR Revallee Gas and Oil Limited TARGET ORD CUR STATUS DH-Abd

DRILLING DATA		DATES		COORDINATES		SAMPLES	
CONTRACTOR C. Shaw Drilling Co. Ltd.		PERMIT	1984-05-24	NORTH 451.1	m	TOP	34.0
RIG TYPE CAB	DEPTHS	SPUD	1984-06-11	SOUTH	m	BOT	1063.0
CABLE TOP 1.5	KB ELEV 184.0	COMPTD	1984-08-16	EAST 128.5	m	TRAY	9665
BOT 1063.0	LOGGER 1058.2	OFFCNF	1984-09-16	WEST	m		9666
ROTRY TOP	DRILLER 1063.0	WRKOVR		LAT 42-13-54			
BOT	DEEP END	ABNDND	1984-08-29	LONG 82-38-11			
DRLG FLD Formation H20	PLUG BK						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
339		34.2	SHO	34.2
219		242.5	CEM	197.5
178		538.0	CEM	384.1

COMPLETION DATA

GAS 10³m³/d
OIL m³/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
5.0 – 1056.2	GRNL	Computalog
999.5 – 1057.5	DENL	"
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
64.0 –	30.0	FRE
419.0 –	90.0	SUL
1060.0 – 1063.0	625.0	BRINE
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.5		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	33.3		
COLUMBUS	65.2		
LUCAS	55.2		
AMHERSTBURG	96.5		
SYLVANIA			
BOIS BLANC	123.0		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	145.8		
G SHALE	252.0		
F SHALE	258.0		
F SALT			
E CARBONATE	288.2		
D SALT/EQUIVALENT	326.5		
C SHALE	329.0		
B MARKER	360.0		
B EQUIVALENT			
B SALT			
B ANHYDRITE	376.2		
A2 CARBONATE	381.5		
A2 SALT			

SILURIAN: A2 ANHYDRITE	402.0		
A1 CARBONATE	409.5		
A1 SALT			
A1 ANHYDRITE			
GUELPH	412.6		
ERAMOSA			
GOAT ISLAND			
GASPORT/MARTON			
DECEW			
ROCHESTER	529.0		
IRONDEQUOIT			
REYNALES/FOSSIL HILL	535.6		
THOROLD			
GRIMSBY			
CABOT HEAD	539.0		
MANITOULIN	574.6		
WHIRLPOOL			
ORDOVICIAN: QUEENSTON	588.3		
BLUE MOUNTAIN - GEORG BAY	674.2		
COLLINGWOOD			
COBOURG	796.1		
VERULAM	827.2		
KIRKFIELD	864.8		
COBOCONK	910.2		
GULL RIVER	954.2		
SHADOW LAKE	1056.2		
CAMBRIAN	1058.0		
PRECAMBRIAN			

GEOLOGY BY

CTY Essex TWP Rochester BLK TRAC 1 LOT 20 CON VERR
WELL NAME Revallee I Rochester 1-20-VERR PERMIT 6447 INIT CLASS NPW
OPERATOR Revallee Gas and Oil Company Ltd. TARGET ORD CUR STATUS OP

DRILLING DATA

CONTRACTOR Charles Shaw Drilling Ltd.
RIG TYPE CAB DEPTHS
CABLE TOP 1.6 KB ELEV 184.4
BOT 840.0 LOGGER 839.8
ROTARY TOP DRILLER 840.0
BOT DEEP END
DRLG FLD Oil & Gas PLUG BK

DATES

PERMIT 1984-03-09
SPUD 1984-03-14
COMPTD 1984-05-08
OFFCNF 1985-05-08
WRKOVR
ABNDND

COORDINATES

NORTH 106.7 m
SOUTH m
EAST m
WEST 106.7 m
LAT 42-13-27
LONG 82-37-09

SAMPLES

TOP 35.0
BOT 840.0
TRAY
322-323

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
822.0 - 825.0		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
339		35.6	SHO	
273		39.5	SHO	
219		240.1	CEM	
178		535.0	CEM	
114		838.6	CEM	

COMPLETION DATA

GAS $10^3 m^3/d$
OIL 0.6 m^3/d
SIP 6205 kPa
FORM Verulam
INTRVL 821.0 - 831.0 m
m
m
PERF X OPEN HOLE

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
821.0 - 831.8		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
203.5 - 839.7	GRNL	Computalog
793.5 - 840.0	DENL	Computalog

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
33.0 -		FRE
64.0 -	3.0	SUL
415.0 - 418.0	90.0	SAL

CORING RECORD

INTERVAL	LOCATION	NO	ANA

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.6		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE			
COLUMBUS			
LUCAS	61.0		
AMHERSTBURG	104.0		
SYLVANIA			
BOIS BLANC	147.7		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	162.2		
G SHALE	238.0		
F SHALE	244.0		
F SALT			
E CARBONATE	272.4		
D SALT/EQUIVALENT	314.7		
C SHALE	319.4		
B MARKER	350.0		
B EQUIVALENT			
B SALT			
B ANHYDRITE	360.0		
A2 CARBONATE	374.0		
A2 SALT	394.5		
A1 CARBONATE	397.0		
A1 SALT			
A1 ANHYDRITE			
GUELPH	404.0		
ERAMOSA			
GOAT ISLAND	465.0		
GASPORT/WIARTON	487.4		
DECEW			
ROCHESTER	522.0		
IRONDEQUOIT			
REYNALES/FOSSIL HILL	527.8		
THOROLD			
GRIMSBY	531.5		
CABOT HEAD	535.5		
MANITOULIN	556.7		
WHIRLPOOL			
ORDOVICIAN: QUEENSTON	578.5		
BLUE MOUNTAIN GEORG BAY	647.2	667.4	
COLLINGWOOD			
COBOURG	791.8		
VERULAM	821.6		
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Essex TWP Tilbury West BLK TRAC 2 LOT 4 CON XI
WELL NAME Nablis #1 Tilbury West 2-4-XI PERMIT 6491 INIT CLASS DEV
OPERATOR Nablis Enterprises Ltd. TARGET SAL CUR STATUS DH-ABD

DRILLING DATA

CONTRACTOR W & G Waterwells Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 187.3
BOT LOGGER 371.9
ROTARY TOP 1.1 DRILLER 371.9
BOT 371.9 DEEP END
DRLG FLD Water PLUG BK

DATES

PERMIT 1984-04-30
SPUD 1984-05-10
COMPTD 1984-05-18
OFFCNF 1984-06-18
WRKOVR
ABNDND 1984-05-22

COORDINATES

NORTH m
SOUTH 113.7 m
EAST 196.0 m
WEST m
LAT 42-10-51
LONG 82-34-24

SAMPLES

TOP 27.0
BOT 358.1
TRAY 9

INITIAL GAS RECORD

INTERVAL	FLOW	SIP

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244		36.6	CEM	
178		206.3	CEM	168.0

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF OPEN HOLE

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY
- 369.6	GRNL	Computalog
334.8 - 371.2	DENL	Computalog

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
371.0 -	146.0	SAL

CORING RECORD

INTERVAL	LOCATION	NO	ANA

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.1		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	27.7		
COLUMBUS			
LUCAS	59.7		
AMHERSTBURG	89.6		
SYLVANIA			
BOIS BLANC	127.7		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	157.3		
G SHALE	211.2		
F SHALE	217.9		
F SALT			
E CARBONATE	238.4		
D SALT/EQUIVALENT	283.2		
C SHALE	287.6		
B MARKER	313.0		
B EQUIVALENT			
B SALT			
B ANHYDRITE	327.4		
A2 CARBONATE	332.5		
A2 SALT	351.7		
A1 CARBONATE	357.5		
A1 SALT			
A1 ANHYDRITE			
GUELPH	365.2		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Essex TWP Tilbury West BLK TRAC 1-2 LOT 7 CON V
WELL NAME Nablis #5 Tilbury W. 1-2-7-V PERMIT 6623 INIT CLASS DEV
OPERATOR TARGET DEV CUR STATUS OS-Susp

DRILLING DATA			DATES		COORDINATES		SAMPLES	
CONTRACTOR			PERMIT	1984-10-30	NORTH	m	TOP	34.0
RIG TYPE	ROT	DEPTHS	SPUD	1984-10-30	SOUTH	62.0 m	BOT	115.8
CABLE TOP		KB ELEV 183.7	COMPTD	1984-11-08	EAST	213.0 m	TRAY	260
BOT		LOGGER	OFFCNF	1984-12-08	WEST	m		
ROTRY TOP	1.1	DRILLER 117.3	WRKOVR		LAT	42-15-17		
BOT	117.3	DEEP END	ABNDND		LONG	82-32-56		
DRLG FLD		PLUG BK						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178		34.4	CEM	
140		48.5	SHO	

COMPLETION DATA

GAS	$10^3m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
34.4 – 35.1	Show	
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
34.4 –		FRE
71.9 –	6.1	BRA
109.7 –	6.1	BRA
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.1		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	34.0		
COLUMBUS	69.9		
LUCAS	75.8		
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
SILURIAN: A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Haldimand TWP Moulton BLK TRAC 4 LOT 3 CON II C
WELL NAME Stefanovic #1 Moulton 4-3-II C PERMIT 6466 INIT CLASS DEV
OPERATOR TARGET CLI CUR STATUS GP

DRILLING DATA			DATES		COORDINATES		SAMPLES	
CONTRACTOR			PERMIT	1984-04-24	NORTH	m	TOP	33.0
RIG TYPE		DEPTHS	SPUD		SOUTH	129.5 m	BOT	244.1
CABLE TOP		KB ELEV 177.8	COMPTD	1984-08-15	EAST	107.3 m	TRAY	275
BOT		LOGGER	OFFCNF		WEST	m		
ROTRY TOP		DRILLER 244.2	WRKOVR		LAT			
BOT		DEEP END	ABNDND		LONG			
DRLG FLD		PLUG BK						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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–		
–		
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV

COMPLETION DATA

GAS	$10^3m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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–		
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CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	0.6		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE			
COLUMBUS			
LUCAS			
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE	49.8		
B MARKER	63.4		
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE	97.5		
A2 SALT			
SILURIAN: A2 ANHYDRITE			
A1 CARBONATE	103.7		
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA	113.0		
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER	162.0		
IRONDEQUOIT	182.0		
REYNALES/FOSSIL HILL	183.0		
THOROLD	186.0		
GRIMSBY	189.0		
CABOT HEAD	206.5		
MANITOULIN			
WHIRLPOOL	218.7		
ORDOVICIAN: QUEENSTON	220.0		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY: Haldimand TWP: Moulton BLK: TRAC: 3 LOT: 3 CON: III LE
WELL NAME: Zicari #2 Moulton 3-3-III LE PERMIT: 6360 INIT CLASS: DEV.
OPERATOR: Leo Zicari TARGET: CLT CUR STATUS: GP

DRILLING DATA

CONTRACTOR	Blake Montgomery Drilling		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	0.7	KB ELEV	177.1
BOT	243.8	LOGGER	
ROTRY TOP		DRILLER	243.8
BOT		DEEP END	
DRLG FLD		PLUG BK	

DATES

PERMIT	1983-09-28
SPUD	1983-10-18
COMPTD	1984-01-09
OFFCNF	1984-02-09
WRKOVR	
ABNDND	-

COORDINATES

NORTH	515.9	m
SOUTH		m
EAST		m
WEST	131.5	m
LAT	42-54-04	
LONG	79-28-13	

SAMPLES

TOP	35.0
BOT	243.8
TRAY	1899

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
96.0 –		
141.7 –		
187.8 –	SHOW	
202.4 –	.11	1241
227.7 – 229.5	.17	1586
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219	35.7	41.8	BAR	
124	22.7	124.4	BHP	

COMPLETION DATA

GAS	$10^3 m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
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–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
35.1 –	6.1	FRE
42.7 –	3.7	SUL
126.2 –	2.4	SUL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.7		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE	44.32		
	D SALT/EQUIVALENT			
	C SHALE	53.5		
	B MARKER	72.6		
	B EQUIVALENT	87.2		
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE	102.3		
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	111.1		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	119.6		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	169.4		
	IRONDEQUOIT	186.6		
	REYNALES/FOSSIL HILL	196.1		
	THOROLD	196.9		
	GRIMSBY	198.0		
	CABOT HEAD	212.0		
	MANITOULIN			
	WHIRLPOOL	227.0		
ORDOVICIAN	QUEENSTON	229.0		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY: Debra K. Parker

CTY: Haldimand TWP: Moulton BLK: TRAC: 1 LOT: 4 CON: II
WELL NAME: Migr bi Moulton 1-4-II PERMIT: 6410 INIT CLASS: NPW
OPERATOR: Cvitkovic, Ivan TARGET: CLT CUR STATUS: GP

DRILLING DATA

CONTRACTOR			
RIG TYPE		DEPTHS	
CABLE TOP		KB ELEV	
BOT		LOGGER	
ROTRY TOP		DRILLER	237.7
BOT		DEEP END	
DRLG FLD		PLUG BK	

DATES

PERMIT	1983-11-15
SPUD	
COMPTD	1984-04-26
OFFCNF	1985-04-26
WRKOVR	
ABNDND	

COORDINATES

NORTH		m
SOUTH	107.0	m
EAST	189.0	m
WEST		m
LAT	42-54-46	
LONG	79-30-06	

SAMPLES

TOP	34.0
BOT	237.7
TRAY	156

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
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–		
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–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV

COMPLETION DATA

GAS	$10^3 m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
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–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL			
	DRIFT / LAKE BOTTOM			
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER	44.0		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	62.0		
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	77.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	83.0		
	ERAMOSA			
	GOAT ISLAND	144.0		
	GASPORT/WIARTON	156.0		
	DECEW			
	ROCHESTER	165.0		
	IRONDEQUOIT	178.0		
	REYNALES/FOSSIL HILL			
	THOROLD	188.0		
	GRIMSBY	190.0		
	CABOT HEAD			
	MANITOULIN	209.0		
	WHIRLPOOL	214.0		
ORDOVICIAN	QUEENSTON	217.0		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY: Debra K. Parker

CTY Huron TWP Stephen BLK TRAC 3 LOT 16 CON X
WELL NAME PPC #2 Stephen 16-X PERMIT 6607 INIT CLASS NPW
OPERATOR Paladin Petroleum Corporation TARGET SAL CUR STATUS OS-Susp

DRILLING DATA

CONTRACTOR Rawlings Drilling Co.
RIG TYPE CAB DEPTHS
CABLE TOP 1.2 KB ELEV 242.3
BOT 594.1 LOGGER
ROTRY TOP DRILLER 594.1
BOT DEEP END
DRLG FLD PLUG BK

DATES

PERMIT 1984-10-04
SPUD 1984-09-28
COMPTD 1984-11-14
OFFCNF 1985-11-14
WRKOVR
ABNDND

COORDINATES

NORTH 106.6 m
SOUTH m
EAST 300.0 m
WEST m
LAT 43-18-47
LONG 81-35-55

SAMPLES

TOP 30.0
BOT 582.8
TRAY 917

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	80.5	29.7	SHO	
178	25.0	268.0	BH	

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
533.0 – 538.0	Show	
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
274.0 – 588.0	LATL	Schlumberger
6.0 – 584.0	CNFD	"
–		
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
35.0 –	27.4	FRE
–		
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–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.2		
PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	300		
COLUMBUS			
LUCAS	67.0		
AMHERSTBURG	129.0		
SYLVANIA			
BOIS BLANC	154.0		
SPRINGVALE			
ORISKANY			
BASS ISLANDS	211.4		
G SHALE	254.3		
F SHALE	261.4		
F SALT			
E CARBONATE	288.2		
D SALT/EQUIVALENT	327.5		
C SHALE	349.4		
B MARKER	353.2		
B EQUIVALENT			
B SALT	360.3		
B ANHYDRITE	436.3		
A2 CARBONATE	442.2		
A2 SALT	475.0		
A2 ANHYDRITE	492.2		
A1 CARBONATE	494.0		
A1 SALT			
A1 ANHYDRITE			
GUELPH	529.7		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER	565.5		
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Kent TWP Camden BLK TRAC 4-8 LOT 5 CON XIV Gore
WELL NAME Brett Camden 4-8-5-XIV Gore PERMIT 6615 INIT CLASS NPW
OPERATOR H. Brett & Associates Ltd. TARGET DEV CUR STATUS OS-SUSP

DRILLING DATA

CONTRACTOR Bothwell Drilling & Servicing Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 190.3
BOT LOGGER
ROTRY TOP 1.8 DRILLER 185.0
BOT 185.0 DEEP END
DRLG FLD PLUG BK

DATES

PERMIT 1984-10-12
SPUD 1984-10-24
COMPTD 1984-10-30
OFFCNF 1985-10-30
WRKOVR
ABNDND 1985-03-01

COORDINATES

NORTH 62.0 m
SOUTH m
EAST 62.0 m
WEST m
LAT 42-35-30
LONG 82-01-39

SAMPLES

TOP 18.0
BOT 182.9
TRAY 289

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178		25.9	CEM	

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
85.3 –	Show	
113.1 –	Show	
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
125.0 –		BRA
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
178.9 – 185.0			N
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.8		
PORT LAMBTON			
KETTLE POINT			
HAMILTON	18.3		
MARCELLUS			
DUNDEE	82.0		
COLUMBUS	122.0		
LUCAS	128.0		
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Kent TWP Dover BLK TRAC 1 LOT 11 CON VE

WELL NAME Rowe - Ram #6 Dover 1-11-VE PERMIT 6544 INIT CLASS NPW

OPERATOR E.P. Rowe Oil Limited TARGET ORD CUR STATUS OP

DRILLING DATA

CONTRACTOR Under water Gas Developers Ltd.
RIG TYPE ROT
CABLE TOP — DEPTHS
BOT — KB ELEV 177.4
ROTRY TOP 2.0 LOGGER 1166.8
BOT 1167.0 DRILLER 1167.0
DRLG FLD Brine DEEP END
PLUG BK

DATES

PERMIT 1984-07-05
SPUD 1984-07-04
COMPTD 1984-07-09
OFFCNF 1985-07-09
WRKOVR
ABNDND

COORDINATES

NORTH — m
SOUTH 167.6 m
EAST — m
WEST 150.9 m
LAT 42-24-27
LONG 82-19-30

SAMPLES

TOP 88.0
BOT 1164.0
TRAY 6506
6507

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	76.6	CEM	
178	36.0	276.6	CEM	
114	14.0	1153.8	CEM	
60	4.7	1085.0	HAN	

COMPLETION DATA

GAS — $10^3 m^3/d$
OIL 4.8 m^3/d
SIP — kPa
FORM Gull River
INTRVL 1093.1-1121.6 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
1105.0 – 1125.0	SHOW	823.2
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
259.0 – 1165.8	DIFS	Schlumberger
245.0 – 1164.5	CNLD	"

PERF X OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
152.0 –		SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	2.0		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	94.0		
COLUMBUS			
LUCAS	124.0		
AMHERSTBURG	184.1		
SYLVANIA			
BOIS BLANC	223.5		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	310.3		
G SHALE	354.8		
F SHALE	361.7		
F SALT			
E CARBONATE	394.0		
D SALT/EQUIVALENT			
C SHALE	433.0		
B MARKER	445.2		
B EQUIVALENT	451.5		
B SALT			
B ANHYDRITE	459.8		
A2 CARBONATE	468.6		
A2 SALT			

A2 ANHYDRITE	496.0		
A1 CARBONATE	498.3		
A1 SALT			
A1 ANHYDRITE			
SILURIAN: GUELPH	508.6		
ERAMOSA			
GOAT ISLAND	569.5		
GASPORT/WIARTON	584.3		
DECEW			
ROCHESTER	594.0		
IRONDEQUOIT			
REYNALES/FOSSIL HILL	602.0		
THOROLD			
GRIMSBY			
CABOT HEAD	603.6		
MANITOULIN	639.8		
WHIRLPOOL			
ORDOVICIAN: QUEENSTON	653.0		
BLUE MOUNTAIN - GEORG BAY	746.7		
COLLINGWOOD			
COBOURG	879.0		
VERULAM	918.8		
KIRKFIELD	960.4		
COBOCONK	1005.7		
GULL RIVER	1040.0		
SHADOW LAKE	1139.8		
CAMBRIAN	1140.8		
PRECAMBRIAN	1145.8		

GEOLOGY BY:

CTY Kent TWP Dover BLK TRAC 8 LOT 6 CON IV E

WELL NAME Rowe - Ram #5 Dover 8 - 6 IV E PERMIT 6513 INIT CLASS DEV

OPERATOR E.P. Rowe Oil Limited TARGET ORD CUR STATUS OP

DRILLING DATA

CONTRACTOR Underwater Gas Developers Ltd.
RIG TYPE ROT
CABLE TOP — DEPTHS
BOT — KB ELEV 178.8
ROTRY TOP 2.0 LOGGER 1157.0
BOT 1158.0 DRILLER 1158.0
DRLG FLD Brine DEEP END
PLUG BK

DATES

PERMIT 1984-06-25
SPUD 1984-06-20
COMPTD 1984-06-29
OFFCNF 1984-07-29
WRKOVR
ABNDND

COORDINATES

NORTH 151.5 m
SOUTH — m
EAST — m
WEST 155.9 m
LAT 42-22-22
LONG 82-20-00

SAMPLES

TOP 84.0
BOT 1157.0
TRAY 6500
6501

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	75.9	CEM	
178	36.0	274.5	CEM	
114	14.0	1111.7	CEM	
60	4.7	1024.4	HAN	

COMPLETION DATA

GAS — $10^3 m^3/d$
OIL 1.6 m^3/d
SIP — kPa
FORM Coboconk
INTRVL 1017.0-1020.0 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
248.5 – 1154.5	DIFS	Schlumberger
244.5 – 1151.7	CNFD	"

PERF X OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
130.0 –		SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	2.0		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	93.0		
COLUMBUS			
LUCAS	123.5		
AMHERSTBURG	183.0		
SYLVANIA			
BOIS BLANC	227.9		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	261.7		
G SHALE	308.4		
F SHALE	315.3		
F SALT			
E CARBONATE	347.1		
D SALT/EQUIVALENT			
C SHALE	388.6		
B MARKER	404.2		
B EQUIVALENT			
B SALT	417.1		
B ANHYDRITE			
A2 CARBONATE	465.2		
A2 SALT			

A2 ANHYDRITE	494.8		
A1 CARBONATE	498.0		
A1 SALT			
A1 ANHYDRITE			
SILURIAN: GUELPH	508.2		
ERAMOSA			
GOAT ISLAND	569.8		
GASPORT/WIARTON	583.7		
DECEW			
ROCHESTER	593.2		
IRONDEQUOIT			
REYNALES/FOSSIL HILL	601.0		
THOROLD			
GRIMSBY			
CABOT HEAD	602.3		
MANITOULIN	631.5		
WHIRLPOOL			
ORDOVICIAN: QUEENSTON	652.0		
BLUE MOUNTAIN - GEORG BAY	743.4		
COLLINGWOOD			
COBOURG	878.5		
VERULAM	916.8		
KIRKFIELD	959.3		
COBOCONK	1003.0		
GULL RIVER	1036.3		
SHADOW LAKE	1139.6		
CAMBRIAN	1140.8		
PRECAMBRIAN	1143.4		

GEOLOGY BY:

CTY Kent TWP Dover BLK TRAC 6 LOT 6 CON IV E
WELL NAME Rowe/Rum #4 Dover 6-IV E PERMIT 6437 INIT CLASS NPW
OPERATOR E. P. Rowe Oil Limited TARGET ORD CUR STATUS OP

DRILLING DATA
CONTRACTOR Underwater Gas Developers Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 177.9
BOT LOGGER 1073.0
ROTRY TOP 1.8 DRILLER 1076.4
BOT 1076.4 DEEP END
DRLG FLD Brine PLUG BK

DATES
PERMIT 1984-02-07
SPUD 1984-02-04
COMPTD 1984-02-09
OFFCNF 1985-02-09
WRKOVR
ABNDND

COORDINATES
NORTH m
SOUTH 790.0 m
EAST 106.7 m
WEST m
LAT 42-22-24
LONG 82-20-25

SAMPLES
TOP 81.0
BOT 1076.0
TRAY
6492-6493

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
1016 – 1031	SHOW	

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
246	54.0	80.1	CEM	
178	25.0	207.3	CEM	
144	14.0	1068.8	CEM	
60		1012.0	HAN	

COMPLETION DATA
GAS $10^3m^3/d$
OIL 32.5 m^3/d
SIP kPa
FORM Coboconk
INTRVL 1013.0-1027.5 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
1016 – 1031	9.5	823.2

LOGGING RECORD

INTERVAL	TYPE	COMPANY
870.0 – 1045.0	CBSC	Schlumberger
980.0 – 1040.0	CMPL	"
870.0 – 1045.0	TNT	"
869.0 – 1045.2	GRL	"
197.0 – 1063.2	CNFD	

PERF ☒ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE

CORING RECORD

INTERVAL	LOCATION	NO	ANAL

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.8		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	93.0		
	COLUMBUS			
	LUCAS	120.0		
	AMHERSTBURG	176.8		
	SYLVANIA			
	BOIS BLANC	205.6		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	261.3		
	G SHALE	305.2		
	F SHALE	311.8		
	F SALT			
	E CARBONATE	343.8		
	D SALT/EQUIVALENT			
	C SHALE	385.8		
	B MARKER	402.0		
	B EQUIVALENT			
	B SALT	414.0		
	B ANHYDRITE	461.7		
	A2 CARBONATE	465.5		
	A2 SALT			
	A2 ANHYDRITE	492.8		
	A1 CARBONATE	495.6		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	506.2		
	ERAMOSA			
	GOAT ISLAND	567.0		
	GASPORT/WIARTON	581.2		
	DECEW			
	ROCHESTER	591.3		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	599.0		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	600.7		
	MANITOULIN	640.2		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	650.3		
	BLUE MOUNTAIN - GEORG BAY	742.8		
	COLLINGWOOD			
	COBOURG	873.3		
	VERULAM	912.6		
	KIRKFIELD	954.2		
	COBOCONK	998.2		
	GULL RIVER	1031.0		
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY Debra K. Parker

CTY Kent TWP Dover BLK TRAC 3 LOT 1 CON II W
WELL NAME Francisco #2 Dover 3-1-II W PERMIT 6434 INIT CLASS NPW
OPERATOR Francisco Petroleum Enterprises Ltd TARGET ORD CUR STATUS OS-ABD

DRILLING DATA
CONTRACTOR Rawlings Drilling Co. Ltd.
RIG TYPE CAB DEPTHS
CABLE TOP 1.2 KB ELEV 177.1
BOT 1124.4 LOGGER 1124.3
ROTRY TOP DRILLER 1124.4
BOT DEEP END
DRLG FLD Oil & H2O PLUG BK 0 - surface

DATES
PERMIT 1984-02-01
SPUD 1984-03-26
COMPTD 1984-06-06
OFFCNF 1985-06-06
WRKOVR
ABNDND 1984-06-15

COORDINATES
NORTH m
SOUTH 556.6 m
EAST 121.5 m
WEST m
LAT 42-21-18
LONG 82-22-39

SAMPLES
TOP 24.0
BOT 1124.4
TRAY 14-15

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
890.0 –		
965.0 – 968.0		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	71.4	23.5	SHO	23.5
273	60.3	85.7	SHO	85.7
219	35.7	355.4	PAC	329.2
178	29.8	613.9	CEM & PAC	530.4

COMPLETION DATA
GAS $10^3m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
1001.3 – 1007.4		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0 – 1122.0	GRNL	Computalog

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
19.8 –		FRE
153.9 –	3.0	SUL
591.3 –	472.0	SAL

CORING RECORD

INTERVAL	LOCATION	NO	ANAL

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	84.4		
	COLUMBUS			
	LUCAS	128.3		
	AMHERSTBURG	176.5		
	SYLVANIA			
	BOIS BLANC	199.9		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	266.7		
	G SHALE	357.8		
	F SHALE	364.5		
	F SALT			
	E CARBONATE	395.3		
	D SALT/EQUIVALENT	433.1		
	C SHALE	434.3		
	B MARKER	445.6		
	B EQUIVALENT	456.0		
	B SALT			
	B ANHYDRITE	470.0		
	A2 CARBONATE	473.0		
	A2 SALT			
	A2 ANHYDRITE	508.7		
	A1 CARBONATE	511.5		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	523.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON	584.9		
	DECEW			
	ROCHESTER	607.5		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	613.0		
	THOROLD			
	GRIMSBY	615.7		
	CABOT HEAD	617.2		
	MANITOULIN	641.3		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	667.5		
	BLUE MOUNTAIN - GEORG BAY	749.8		
	COLLINGWOOD			
	COBOURG	877.5		
	VERULAM	914.7		
	KIRKFIELD	950.7		
	COBOCONK	968.0		
	GULL RIVER	1001.3		
	SHADOW LAKE	1110.7		
CAMBRIAN				
PRECAMBRIAN		1114.0		

GEOLOGY BY Debra K. Parker

CTY Kent TWP Dover BLK TRAC 2 LOT 11 CON IX E
WELL NAME Peregrine et al Dover 2-11-IX E PERMIT 6391 INIT CLASS NPW
OPERATOR Peregrine Petroleum Limited TARGET ORD CUR STATUS DH

DRILLING DATA

CONTRACTOR Rawlings Drilling Co Ltd.
RIG TYPE CAB DEPTHS
CABLE TOP 1.5 KB ELEV 177.5
BOT 1157.6 LOGGER 1157.4
ROTRY TOP DRILLER 1157.6
BOT DEEP END
DRLG FLD Dry PLUG BK 1.5 m

DATES

PERMIT 1983-11-15
SPUD 1983-11-17
COMPTD 1984-02-02
OFFCNF 1985-02-02
WRKOVR
ABNDND 1984-02-09

COORDINATES

NORTH m
SOUTH 106.9 m
EAST 106.9 m
WEST m
LAT 42-26-33
LONG 82-22-28

SAMPLES

TOP 20.0
BOT 1157.6
TRAY 6486-6487

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
339.7	71.4	20.2	SHOE	20.2
273	60.3	86.3	SHOE	86.3
219	35.7	321.6	PAC	311.9
178	29.7	610.8	CEM	430.6

COMPLETION DATA

GAS $10^3m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
1150.0 – 1153.4	SHOW	
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0 – 1155.0	GRNL	Compumalog
–		
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
18.3 –		FRE
109.7 –	30.5	SUL
512.1 – 515.1		SAL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	AMAL
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.5		
DEVONIAN: PORT LAMBTON			
KETTLE POINT	18.0		
HAMILTON	21.0		
MARCELLUS			
DUNDEE	83.8		
COLUMBUS	110.0		
LUCAS	121.2		
AMHERSTBURG	176.7		
SYLVANIA			
BOIS BLANC	201.0		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	262.5		
G SHALE	305.0		
F SHALE	311.5		
F SALT			
E CARBONATE	340.0		
D SALT/EQUIVALENT	379.1		
C SHALE	383.5		
B MARKER	397.7		
B EQUIVALENT	403.7		
B SALT	409.0		
B ANHYDRITE	466.0		
A2 CARBONATE	468.8		
A2 SALT	497.3		
A2 ANHYDRITE	505.7		
A1 CARBONATE	508.2		
A1 SALT			
A1 ANHYDRITE			
GUELPH	516.0		
ERAMOSA			
GOAT ISLAND	546.3		
GASPORT/WIARTON	585.8		
DECEW			
ROCHESTER	600.8		
IRONDEQUOIT			
REYNALES/FOSSIL HILL	608.5		
THOROLD			
GRIMSBY			
CABOT HEAD	611.0		
MANITOULIN	650.3		
WHIRLPOOL			
ORDOVICIAN: QUEENSTON	656.5		
BLUE MOUNTAIN - GEORG BAY	756.0		
COLLINGWOOD			
COBOURG	874.3		
VERULAM	916.2		
KIRKFIELD	957.5		
COBOCONK	1002.9		
GULL RIVER	1037.2		
SHADOW LAKE	1148.2		
CAMBRIAN	1149.8		
PRECAMBRIAN	1153.8		

GEOLOGY BY Debra K. Parker

CTY Kent TWP Dover BLK TRAC 3 LOT 12 CON V E
WELL NAME Rowe/Ram #7 Dover 3-12-V E PERMIT 6609 INIT CLASS DEV
OPERATOR E.P. Rowe Oil Limited TARGET ORD CUR STATUS OP

DRILLING DATA

CONTRACTOR Underwater Gas Dev. Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 178.0
BOT LOGGER 1161.8
ROTRY TOP 1.8 DRILLER 1160.0
BOT 1160.0 DEEP END
DRLG FLD KCL POLYMER PLUG BK

DATES

PERMIT 1984-10-11
SPUD 1984-10-04
COMPTD 1984-10-14
OFFCNF 1984-11-14
WRKOVR
ABNDND

COORDINATES

NORTH m
SOUTH 659.5 m
EAST 38.2 m
WEST m
LAT 42-24-27
LONG 82-19-32

SAMPLES

TOP 101.0
BOT 1159.0
TRAY 9875
9876

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
925.0 – 926.0	Show	
980.0 – 1009.0	Show	
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	97.5	CEM	
178	30.0	354.8	CEM	
114	10.5	1103.3	CEM	
60	4.6	1062.0	HAN	

COMPLETION DATA

GAS 8.2 $10^3m^3/d$
OIL 0.5 m^3/d
SIP 7990 kPa
FORM
INTRVL m
m
m
PERF ☒ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
1013.0 – 1016.0	Show	
1029.0 – 1034.0	Show	
1063.0 – 1068.0	Show	
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
46.0 – 1160.8	CNFD	Schlumberger
845.0 – 1161.7	DLLM	"
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	AMAL
1095.0 – 1131.0	PRL		Y
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.8		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	108.5		
COLUMBUS			
LUCAS	138.7		
AMHERSTBURG	210.5		
SYLVANIA			
BOIS BLANC	254.4		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	305.8		
G SHALE	349.2		
F SHALE	355.6		
F SALT			
E CARBONATE	385.3		
D SALT/EQUIVALENT	423.7		
C SHALE	424.8		
B MARKER	437.6		
B EQUIVALENT	443.4		
B SALT			
B ANHYDRITE	452.6		
A2 CARBONATE	469.4		
A2 SALT			
A2 ANHYDRITE	500.8		
A1 CARBONATE	503.4		
A1 SALT			
A1 ANHYDRITE			
GUELPH	514.3		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER	598.9		
IRONDEQUOIT			
REYNALES/FOSSIL HILL	607.0		
THOROLD			
GRIMSBY			
CABOT HEAD	608.3		
MANITOULIN	639.6		
WHIRLPOOL			
ORDOVICIAN: QUEENSTON	658.0		
BLUE MOUNTAIN - GEORG BAY	747.7		
COLLINGWOOD			
COBOURG	887.3		
VERULAM	917.0		
KIRKFIELD	965.7		
COBOCONK	1010.0		
GULL RIVER	1037.8		
SHADOW LAKE	1144.6		
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Kent TWP Dover BLK TRAC 8 LOT 14 CON XIII E
WELL NAME PPC #4 Dover 8-14-XIII E PERMIT 6621 INIT CLASS NPW
OPERATOR Paladin Petroleum Corporation TARGET ORD CUR STATUS DH-Abd

DRILLING DATA

CONTRACTOR Underwater Gas Devel. Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 178.1
BOT LOGGER 1202.9
ROTRY TOP 1.8 DRILLER 1203.0
BOT 1203.0 DEEP END
DRLG FLD KCl Polymer PLUG BK

DATES

PERMIT 1984-10-26
SPUD 1984-10-27
COMPTD 1984-11-01
OFFCNF 1985-11-01
WRKOVR
ABNDND 1984-11-03

COORDINATES

NORTH 107.0 m
SOUTH m
EAST m
WEST 107.0 m
LAT 42-29-09
LONG 82-23-24

SAMPLES

TOP 106.0
BOT 1201.0
TRAY 9884-9885

INITIAL GAS RECORD

INTERVAL	FLOW	SIP

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	106.0	CEM	
178	35.0	388.1	CEM	106.0

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY
386.0 – 1198.6	DLIM	Schlumberger
385.0 – 1202.2	CNFD	"

PERF ☐ OPEN HOLE ☐
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE

CORING RECORD

INTERVAL	LOCATION	NO	ANAL

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.8		
DEVONIAN PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	106.0		
COLUMBUS			
LUCAS	154.1		
AMHERSTBURG	223.0		
SYLVANIA			
BOIS BLANC	273.7		
SPRINGVALE			
ORISKANY			
SILURIAN BASS ISLANDS	328.4		
G SHALE	362.0		
F SHALE	373.0		
F SALT			
E CARBONATE	407.6		
D SALT/EQUIVALENT	445.2		
C SHALE	446.6		
B MARKER	458.4		
B EQUIVALENT			
B SALT	474.6		
B ANHYDRITE			
A2 CARBONATE	497.8		
A2 SALT			

A2 ANHYDRITE	535.4	
A1 CARBONATE	538.7	
A1 SALT		
A1 ANHYDRITE	557.0	
GUELPH	558.7	
ERAMOSA		
GOAT ISLAND	576.0	
GASPORT/WIARTON	606.6	
DECEW		
ROCHESTER	623.4	
IRONDEQUOIT		
REYNALES/FOSSIL HILL	631.0	
THOROLD		
GRIMSBY		
CABOT HEAD	633.4	
MANITOULIN	669.3	
WHIRLPOOL		
ORDOVICIAN QUEENSTON	683.2	
BLUE MOUNTAIN - GEORG BAY	768.0	
COLLINGWOOD		
COBOURG	890.7	
VERULAM	933.7	
KIRKFIELD	976.3	
COBOCONK	1021.4	
GULL RIVER	1056.4	
SHADOW LAKE	1167.4	
CAMBRIAN		
PRECAMBRIAN	1170.0	

GEOLOGY BY

CTY Kent TWP Dover BLK TRAC 4 LOT 32 CON XIII E
WELL NAME PPC #5 Dover 4-32-XIII E PERMIT 6626 INIT CLASS NPW
OPERATOR Paladin Petroleum Corporation TARGET CLI CUR STATUS DH-Abd

DRILLING DATA

CONTRACTOR Underwater Gas Devel. Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 178.7
BOT LOGGER 661.3
ROTRY TOP 1.2 DRILLER 661.0
BOT 661.0 DEEP END
DRLG FLD Salt Brine PLUG BK

DATES

PERMIT 1984-11-07
SPUD 1984-11-03
COMPTD 1984-11-08
OFFCNF 1985-11-08
WRKOVR
ABNDND 1984-11-09

COORDINATES

NORTH m
SOUTH 107.0 m
EAST 107.0 m
WEST m
LAT 42-30-52
LONG 82-20-45

SAMPLES

TOP 101.0
BOT 661.0
TRAY 5422

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
574.0 – 607.0	Show	

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	98.3	CEM	
178	30.0	399.5	CEM	

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
574.0 – 607.0	Show	

LOGGING RECORD

INTERVAL	TYPE	COMPANY
396.5 – 653.0	NGRS	Schlumberger
394.0 – 650.6	DLLM	"
3.0 – 653.3	CNFD	"

PERF ☐ OPEN HOLE ☐
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
140.0 –		SUL

CORING RECORD

INTERVAL	LOCATION	NO	ANAL

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.2		
DEVONIAN PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	99.8		
COLUMBUS	128.0		
LUCAS	143.0		
AMHERSTBURG	220.4		
SYLVANIA			
BOIS BLANC	274.2		
SPRINGVALE			
ORISKANY			
SILURIAN BASS ISLANDS	322.4		
G SHALE	385.6		
F SHALE	392.0		
F SALT			
E CARBONATE	425.2		
D SALT/EQUIVALENT	467.3		
C SHALE	470.0		
B MARKER	496.0		
B EQUIVALENT	502.6		
B SALT			
B ANHYDRITE	513.5		
A2 CARBONATE	517.3		
A2 SALT			

A2 ANHYDRITE	555.3	
A1 CARBONATE	558.3	
A1 SALT		
A1 ANHYDRITE	581.4	
GUELPH	585.6	
ERAMOSA		
GOAT ISLAND	598.7	
GASPORT/WIARTON	623.3	
DECEW		
ROCHESTER	640.8	
IRONDEQUOIT		
REYNALES/FOSSIL HILL	649.0	
THOROLD		
GRIMSBY		
CABOT HEAD		
MANITOULIN		
WHIRLPOOL		
ORDOVICIAN QUEENSTON		
BLUE MOUNTAIN - GEORG BAY		
COLLINGWOOD		
COBOURG		
VERULAM		
KIRKFIELD		
COBOCONK		
GULL RIVER		
SHADOW LAKE		
CAMBRIAN		
PRECAMBRIAN		

GEOLOGY BY Debra K. Parker

CTY KENT TWP Dover BLK TRAC 4 LOT 36 CON XIV
WELL NAME PPC #3 Dover 4-36-XIV- E PERMIT 6614 INIT CLASS NPW
OPERATOR Paladin Petroleum Corporation TARGET ORD CUR STATUS OS-SUSP

DRILLING DATA

CONTRACTOR Underwater Gas Devel. Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 177.5
BOT LOGGER 1186.0
ROTRY TOP 1.3 DRILLER 1188.0
BOT 1188.0 DEEP END
DRLG FLD KCL Polymer PLUG BK

DATES

PERMIT 1984-10-02
SPUD 84-10-17
COMPTD 84-10-25
OFFCNF 85-10-25
WRKOVR
ABNOND

COORDINATES

NORTH 129.5 m
SOUTH m
EAST 106.8 m
WEST m
LAT
LONG

SAMPLES

TOP 109.0
BOT 1186.0
TRAY 9871
9872

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
956.0 – 995.0	Show	

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	97.8	CEM	
178	30.0	463.7	CEM	

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF [ ] OPEN HOLE [ ]
REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
982.0 – 985.0	Show	823.2

LOGGING RECORD

INTERVAL	TYPE	COMPANY
466.0 – 1185.0	DLIM	Schlumberger
465.0 – 1177.5	NGRS	"
23.5 – 1176.7	CNFD	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
115.0 –		SUL
437.0 –		SAL

CORING RECORD

INTERVAL	LOCATION	NO	ANA

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	91.2		
	COLUMBUS	130.0		
	LUCAS	142.0		
	AMHERSTBURG	239.8		
	SYLVANIA			
	BOIS BLANC	291.4		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	357.3		
	G SHALE	430.7		
	F SHALE	457.8		
	F SALT			
	E CARBONATE	486.6		
	D SALT/EQUIVALENT	511.6		
	C SHALE	532.8		
	B MARKER	545.4		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	560.8		
	A2 CARBONATE	565.3		
	A2 SALT			

		TOP	ELEV	THICK
SILURIAN	A2 ANHYDRITE	601.5		
	A1 CARBONATE	605.0		
	A1 SALT			
	A1 ANHYDRITE	627.7		
	GUELPH	630.5		
	ERAMOSA			
	GOAT ISLAND	644.5		
	GASPORT/WIARTON	668.6		
	DECEW			
	ROCHESTER	687.2		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	695.2		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	696.8		
	MANITOULIN	726.0		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	744.8		
	BLUE MOUNTAIN - GEORG BAY	824.8		
	COLLINGWOOD			
	COBOURG	880.2		
	VERULAM	900.4		
	KIRKFIELD	933.2		
	COBOCONK	980.2		
	GULL RIVER	1017.8		
	SHADOW LAKE	1136.0		
CAMBRIAN				
PRECAMBRIAN		1137.6		

GEOLOGY BY Debra K. Parker

CTY Kent TWP Howard BLK TRAC 2 LOT 5 CON I
WELL NAME Bailey #3 Howard 2-2-5-I PERMIT 6522 INIT CLASS NPW
OPERATOR Springs Drilling Ltd. TARGET DEV CUR STATUS OS-ABD

DRILLING DATA

CONTRACTOR Circle "A" Drilling Inc.
RIG TYPE CAB DEPTHS
CABLE TOP 0.4 KB ELEV 186.5
BOT 106.0 LOGGER
ROTRY TOP DRILLER 106.0
BOT DEEP END
DRLG FLD PLUG BK

DATES

PERMIT 1984-05-24
SPUD 1984-05-22
COMPTD 1984-06-01
OFFCNF 1985-06-01
WRKOVR
ABNDND 1984-06-13

COORDINATES

NORTH m
SOUTH 67.0 m
EAST 64.0 m
WEST m
LAT 42-30-25
LONG 82-01-18

SAMPLES

TOP 21.9
BOT 105.7
TRAY 54

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
68.0 –		
95.5 – 96.0	SHOW	

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178		22.0	SHO	22.0
114		95.7	SHO	55.0
140		55.0		55.0

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF [ ] OPEN HOLE [ ]
REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
96.5 – 97.3		
95.5 – 96.0		

LOGGING RECORD

INTERVAL	TYPE	COMPANY

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
96.5 – 97.3	67.5	SUL

CORING RECORD

INTERVAL	LOCATION	NO	ANA

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.4		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	22.0		
	HAMILTON	27.0		
	MARCELLUS			
	DUNDEE	95.5		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

		TOP	ELEV	THICK
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY Debra K. Parker

CTY Kent TWP Raleigh BLK TRAC 1-6 LOT 1 CON I
WELL NAME Stevenson #6 Raleigh 1-6-1-I PERMIT 6519 INIT CLASS DEV
OPERATOR Stevenson, Charles G. TARGET DEV CUR STATUS OP

DRILLING DATA

CONTRACTOR	Stevenson, Charles G.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	176.3
BOT		LOGGER	
ROTRY TOP	1.3	DRILLER	79.6
BOT	79.6	DEEP END	
DRLG FLD		PLUG BK	

DATES

PERMIT	1984-05-24
SPUD	1984-05-17
COMPTD	1984-05-19
OFFCNF	1984-06-19
WRKOVR	
ABNDND	

COORDINATES

NORTH	587.8	m
SOUTH		m
EAST		m
WEST	378.0	m
LAT	42-20-35	
LONG	82-21-03	

SAMPLES

TOP	27.0
BOT	79.2
TRAY	26

INITIAL GAS RECORD

INTERVAL	FLOW	SIP

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178		29.3	CEM	
114		55.2	CEM	

COMPLETION DATA

GAS	$10^3 m^3/d$
OIL 0.1	m^3/d
SIP	kPa
FORM DUNDEE	
INTRVL	m
	m
	m
PERF [ ]	OPEN HOLE [X]

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
55.2 – 57.9		
73.2 – 80.8		

LOGGING RECORD

INTERVAL	TYPE	COMPANY

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
73.2 – 80.8	4.6	SUL

CORING RECORD

INTERVAL	LOCATION	NO	ANAL

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.3		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	55.0		
COLUMBUS			
LUCAS			
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
SILURIAN: A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Kent TWP Raleigh BLK TRAC 3 LOT 1 CON I
WELL NAME Stevenson #2 Raleigh 4-3-1-I PERMIT 6438 INIT CLASS DEV
OPERATOR Charles G. Stevenson Drilling Ltd. TARGET DEV CUR STATUS OP

DRILLING DATA

CONTRACTOR	W & C Waterwells Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	175.1
BOT		LOGGER	
ROTRY TOP	0	DRILLER	85.3
BOT	85.6	DEEP END	
DRLG FLD		PLUG BK	

DATES

PERMIT	1984-02-10
SPUD	1984-02-04
COMPTD	1984-02-06
OFFCNF	1984-03-06
WRKOVR	
ABNDND	

COORDINATES

NORTH	754.4	m
SOUTH		m
EAST		m
WEST	378.0	m
LAT	42-21-40	
LONG	82-21-09	

SAMPLES

TOP	43.0
BOT	85.0
TRAY	3047

INITIAL GAS RECORD

INTERVAL	FLOW	SIP

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	29.8	54.9	CEM	

COMPLETION DATA

GAS	$10^3 m^3/d$
OIL	m^3/d
SIP	kPa
FORM DUNDEE	
INTRVL 74.4 – 85.6	m
	m
	m
PERF [ ]	OPEN HOLE [X]

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
39.6 –	SHOW	
55.8 –	SHOW	
74.4 – 85.6		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0 – 85.6	GRNL	Computalog
–	DENL	"

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
55.8 – 77.7	PRL	872	N

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL			
DRIFT / LAKE BOTTOM	0		
DEVONIAN: PORT LAMBTON	27.7		
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	56.4		
COLUMBUS			
LUCAS			
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
SILURIAN: A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Kent TWP Raleigh BLK TRAC 4-3 LOT 2 CON I
WELL NAME Crow #3 Raleigh 4-3-2-I PERMIT 6454 INIT CLASS DEV
OPERATOR Crow, Jack TARGET DEV CUR STATUS DH-ABD

DRILLING DATA

CONTRACTOR Marsh, Tom
RIG TYPE CAB DEPTHS
CABLE TOP 0.5 KB ELEV 176.3
BOT 86.0 LOGGER
ROTRY TOP DRILLER 86.0
BOT DEEP END
DRLG FLD PLUG BK

DATES

PERMIT 1984-03-14
SPUD 1984-03-15
COMPTD 1984-04-04
OFFCNF 1984-05-04
WRKOVR
ABNDND 1984-04-06

COORDINATES

NORTH 695.8 m
SOUTH m
EAST 219.5 m
WEST m
LAT 42-20-51
LONG 82-20-48

SAMPLES

TOP 29.9
BOT 83.8
TRAY 1740

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
41.0 - 48.0	SHOW	

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
165		29.9	SHO	29.9

COMPLETION DATA

GAS $10^3m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF OPEN HOLE

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
29.0 -	8.0	FRE

CORING RECORD

INTERVAL	LOCATION	NO	Amt

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	0.5		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON	29.9		
MARCELLUS			
DUNDEE	58.5		
COLUMBUS			
LUCAS			
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
SILURIAN: A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Kent TWP Romney BLK TRAC 1 LOT 15 CON IV
WELL NAME Consumers et al 33849 Romney 15-IV PERMIT 6583 INIT CLASS NPW
OPERATOR The Consumers' Gas Company Ltd. TARGET SAL CUR STATUS DH-Abd

DRILLING DATA

CONTRACTOR W.G. Water Wells Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 188.7
BOT LOGGER 485.0
ROTRY TOP 1.0 DRILLER 487.0
BOT 487.0 DEEP END
DRLG FLD Brine PLUG BK

DATES

PERMIT 1984-08-31
SPUD 1984-08-29
COMPTD 1984-09-05
OFFCNF 1985-09-05
WRKOVR
ABNDND 1984-09-05

COORDINATES

NORTH m
SOUTH 106.7 m
EAST m
WEST 195.1 m
LAT 42-09-20
LONG 82-26-01

SAMPLES

TOP 50.0
BOT 483.6
TRAY 4470

INITIAL GAS RECORD

INTERVAL	FLOW	SIP

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	56.3	CEM	
178	25.0	258.3	CEM	

COMPLETION DATA

GAS $10^3m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF OPEN HOLE

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
368.0 - 371.0	Show	

LOGGING RECORD

INTERVAL	TYPE	COMPANY
251.0 - 481.5	LATL	Schlumberger
- 480.9	CNFD	"

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
48.0 -		FRE
265.0 - 270.0		SUL

CORING RECORD

INTERVAL	LOCATION	NO	Amt

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.0		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	59.8		
COLUMBUS	95.8		
LUCAS	104.0		
AMHERSTBURG	136.5		
SYLVANIA			
BOIS BLANC	144.5		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	191.0		
G SHALE	232.1		
F SHALE	238.8		
F SALT			
E CARBONATE	259.8		
D SALT/EQUIVALENT			
C SHALE	308.6		
B MARKER	321.3		
B EQUIVALENT	327.0		
B SALT	335.0		
B ANHYDRITE	364.5		
A2 CARBONATE	367.8		
A2 SALT			
SILURIAN: A2 ANHYDRITE	388.8		
A1 CARBONATE	392.2		
A1 SALT			
A1 ANHYDRITE			
GUELPH	401.8		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Kent | TWP Tilbury East | BLK | TRAC 1 | LOT 5 | CON X

WELL NAME Consumers' 40009 Tilbury E I-5-X | PERMIT 6592 | INIT CLASS NPW

OPERATOR The Consumers' Gas Company Ltd. | TARGET ORD | CUR STATUS OS-SUSP -ABD

DRILLING DATA

CONTRACTOR Underwater Gas Devel. Ltd.

RIG TYPE ROT

CABLE TOP | KB ELEV 187.1

BOT | LOGGER 1123.8

ROTRY TOP 1.8 | DRILLER 1121.0

BOT 1121.0 | DEEP END

DRLG FLD Brine | PLUG BK 500.0

DATES

PERMIT 1984-09-13

SPUD 1984-09-17

COMPTD 1984-09-22

OFFCNF 1985-09-22

WRKOVR

ABNDND

COORDINATES

NORTH m

SOUTH 321.9 m

EAST m

WEST 107.6 m

LAT 42-15-41

LONG 82-17-49

SAMPLES

TOP 104.0

BOT 1120.0

TRAY 9865

9866

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
48.0 – 49.0	Show	
103.0 – 104.0	Show	
386.0 – 388.0	Show	

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	101.0	CEM	
178	30.0	551.2	CEM	

COMPLETION DATA

GAS $10^3m^3/d$

OIL m^3/d

SIP kPa

FORM

INTRVL m

m

m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
441.0 – 443.0	Show	

LOGGING RECORD

INTERVAL	TYPE	COMPANY
93.0 – 555.9	DLLM	Schlumberger
11.0 – 1115.8	CNFD	"

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
166.0 – 170.0		SUL
432.0 – 440.0		SUL
443.0		SUL
1120.0		SAL

CORING RECORD

INTERVAL	LOCATION	NO	ANAL

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.8		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT			
DEVONIAN	HAMILTON			
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE	79.3		
DEVONIAN	COLUMBUS	122.5		
DEVONIAN	LUCAS	126.2		
DEVONIAN	AMHERSTBURG	156.0		
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	202.0		
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY			
SILURIAN	BASS ISLANDS	229.2		
SILURIAN	G SHALE	270.6		
SILURIAN	F SHALE	272.3		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	308.4		
SILURIAN	D SALT/EQUIVALENT	341.6		
SILURIAN	C SHALE	343.7		
SILURIAN	B MARKER	363.4		
SILURIAN	B EQUIVALENT	369.5		
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE	378.2		
SILURIAN	A2 CARBONATE	384.7		
SILURIAN	A2 SALT			
SILURIAN	A2 ANHYDRITE	403.8		
SILURIAN	A1 CARBONATE	406.6		
SILURIAN	A1 SALT			
SILURIAN	A1 ANHYDRITE			
SILURIAN	GUELPH	417.0		
SILURIAN	ERAMOSA			
SILURIAN	GOAT ISLAND	490.8		
SILURIAN	GASPORT/WIARTON	510.8		
SILURIAN	DECEW			
SILURIAN	ROCHESTER	536.8		
SILURIAN	IRONDEQUOIT			
SILURIAN	REYNALES/FOSSIL HILL	545.6		
SILURIAN	THOROLD			
SILURIAN	GRIMSBY			
SILURIAN	CABOT HEAD	548.0		
SILURIAN	MANITOULIN	585.0		
SILURIAN	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	596.6		
ORDOVICIAN	BLUE MOUNTAIN - GEORG BAY	692.4		
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG	842.1		
ORDOVICIAN	VERULAM	875.5		
ORDOVICIAN	KIRKFIELD	917.7		
ORDOVICIAN	COBOCONK	961.4		
ORDOVICIAN	GULL RIVER	993.7		
ORDOVICIAN	SHADOW LAKE	1106.7		
	CAMBRIAN	1110.0		
	PRECAMBRIAN			

GEOLOGY BY

CTY Kent | TWP Tilbury East | BLK | TRAC 7 | LOT 24 | CON VIII

WELL NAME Cons/OEC 33725 Tilbury E- 7 -24-VIII | PERMIT 6412 | INIT CLASS NPW

OPERATOR The Consumers' Gas Company Ltd. | TARGET ORD | CUR STATUS OS-ABD

DRILLING DATA

CONTRACTOR Underwater Gas Developers Ltd.

RIG TYPE ROT

CABLE TOP | KB ELEV 185.1

BOT | LOGGER 1110.0

ROTRY TOP 1.8 | DRILLER 1110.0

BOT 1110.0 | DEEP END

DRLG FLD Salt Brine | PLUG BK

DATES

PERMIT 1983-12-08

SPUD 1983-12-14

COMPTD 1984-01-07

OFFCNF 1985-01-07

WRKOVR

ABNDND 1984-01-07

COORDINATES

NORTH 106.7 m

SOUTH m

EAST 172.2 m

WEST m

LAT 42-17-02

LONG 82-25-04

SAMPLES

TOP 75.0

BOT 1108.0

TRAY

6484-6485

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	68.0	CEM	
178	30.0	502.2	CEM	

COMPLETION DATA

GAS $10^3m^3/d$

OIL m^3/d

SIP kPa

FORM

INTRVL m

m

m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
89.0 – 107.0	Show	
812.0 – 814.0	Show	

LOGGING RECORD

INTERVAL	TYPE	COMPANY
71.0 – 1105.5	DLLM	Schlumberger
65.0 – 1100.3	CNFD	Schlumberger
5.0 – 1100.0	NGRS	Schlumberger

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
140.0 – 143.0		SUL
1090.0 – 1097.5		SAL

CORING RECORD

INTERVAL	LOCATION	NO	ANAL

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.8		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT			
DEVONIAN	HAMILTON			
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE	54.5		
DEVONIAN	COLUMBUS	87.0		
DEVONIAN	LUCAS	108.5		
DEVONIAN	AMHERSTBURG	143.5		
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	173.8		
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY			
SILURIAN	BASS ISLANDS	207.0		
SILURIAN	G SHALE	267.6		
SILURIAN	F SHALE	274.0		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	301.8		
SILURIAN	D SALT/EQUIVALENT	340.0		
SILURIAN	C SHALE	345.0		
SILURIAN	B MARKER	360.7		
SILURIAN	B EQUIVALENT			
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE	375.8		
SILURIAN	A2 CARBONATE	383.4		
SILURIAN	A2 SALT			
SILURIAN	A2 ANHYDRITE	402.9		
SILURIAN	A1 CARBONATE	407.3		
SILURIAN	A1 SALT			
SILURIAN	A1 ANHYDRITE			
SILURIAN	GUELPH	419.0		
SILURIAN	ERAMOSA			
SILURIAN	GOAT ISLAND	450.0		
SILURIAN	GASPORT/WIARTON	492.4		
SILURIAN	DECEW			
SILURIAN	ROCHESTER	519.7		
SILURIAN	IRONDEQUOIT			
SILURIAN	REYNALES/FOSSIL HILL	526.5		
SILURIAN	THOROLD			
SILURIAN	GRIMSBY /Dyer Bay	528.2		
SILURIAN	CABOT HEAD	529.4		
SILURIAN	MANITOULIN	559.8		
SILURIAN	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	578.4		
ORDOVICIAN	BLUE MOUNTAIN - GEORG BAY	670.0		
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG	812.4		
ORDOVICIAN	VERULAM	852.0		
ORDOVICIAN	KIRKFIELD	879.3		
ORDOVICIAN	COBOCONK	923.6		
ORDOVICIAN	GULL RIVER	955.9		
ORDOVICIAN	SHADOW LAKE	1066.5		
	CAMBRIAN	1070.2		
	PRECAMBRIAN	1089.7		

GEOLOGY BY Debra K. Parker

CTY Kent TWP Zone BLK TRAC 2 LOT 4 CON I

WELL NAME Cons/OEC 33837 Zone 2-2-4-I PERMIT 6524 INIT CLASS DEV

OPERATOR The Consumers' Gas Company Ltd. TARGET DEV CUR STATUS DH - ABD

DRILLING DATA

CONTRACTOR W. G. Waterwells Ltd.
RIG TYPE ROT
CABLE TOP
BOT
ROTRY TOP 1.5
BOT 128.0
DRLG FLD Water

DEPTHS
KB ELEV 191.8
LOGGER 127.6
DRILLER 128.0
DEEP END
PLUG BK

DATES

PERMIT 1984-06-04
SPUD 1984-05-31
COMPTD 1984-06-01
OFFCNF 1984-07-01
WRKOVR
ABNDND 1984-06-02

COORDINATES

NORTH m
SOUTH 76.2 m
EAST m
WEST 83.8 m
LAT 42-35-24
LONG 81-59-51

SAMPLES

TOP 30.0
BOT 119.5
TRAY 153

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	25.8	24.7	CEM	

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF OPEN HOLE

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
1.2 – 123.5	GRNL	Computalog
76.0 – 124.5	DENL	Computalog
–		
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.5		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	13.3		
	MARCELLUS			
	DUNDEE	78.4		
	COLUMBUS	117.0		
	LUCAS	120.1		
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY

CTY Lambton TWP Brooke BLK TRAC 2-3 LOT 2 CON VIII

WELL NAME T. Forbes Brooke 2-3-2- VIII PERMIT 6439 INIT CLASS DEV

OPERATOR T. Forbes Equipment Ltd TARGET DEV CUR STATUS OS

DRILLING DATA

CONTRACTOR J.E.English General ~~Well Service~~ Drilling 6
RIG TYPE CAB
CABLE TOP 0
BOT 159.7
ROTRY TOP
BOT
DRLG FLD

DEPTHS
KB ELEV 210.1
LOGGER
DRILLER 159.7
DEEP END
PLUG BK

DATES

PERMIT 1984-02-07
SPUD 1984-02-18
COMPTD 1984-03-09
OFFCNF 1984-04-09
WRKOVR
ABNDND

COORDINATES

NORTH m
SOUTH 438.9 m
EAST 86.9 m
WEST m
LAT 42-51-02
LONG 81-59-49

SAMPLES

TOP 21.0
BOT 159.7
TRAY 1883

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178		21.3	SHO	

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF OPEN HOLE

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
117.0 – 147.0	SHOW	
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
20.7 –	9.1	FRE
147.5 –		SUL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	40.0		
	MARCELLUS			
	DUNDEE	115.5		
	COLUMBUS			
	LUCAS	141.7		
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY Debra K. Parker

CTY Lambton TWP Brooke BLK TRAC 3 LOT 4 CON XI
WELL NAME Forbes #24 Brooke 3-4-XI PERMIT 6411 INIT CLASS NPW
OPERATOR Forbes Resources Inc. TARGET SAL CUR STATUS DH-ABD

DRILLING DATA
CONTRACTOR James Newport Drilling ltd.
RIG TYPE CAB
CABLE TOP 1.4 BOT 650.0
ROTRY TOP BOT
DRLG FLD
DEPTHS
KB ELEV 213.2
LOGGER
DRILLER 650.0
DEEP END
PLUG BK

DATES
PERMIT 1983-12-08
SPUD 1983-12-15
COMPTD 1984-01-20
OFFCNF 1985-01-20
WRKOVR
ABNDND 1984-02-02

COORDINATES
NORTH m
SOUTH 420.2 m
EAST 131.2 m
WEST m
LAT 42-53-17
LONG 82-58-56

SAMPLES
TOP 0.0
BOT 650.0
TRAY
8690-8691

INITIAL GAS RECORD

INTERVAL	FLOW	SIP

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		20.0	SHO	20.0
219		128.4	SHO	128.4
178		350.9	CEM	266.0

COMPLETION DATA
GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m m m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY

PERF OPEN HOLE

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
162.0 - 165.0	180.00	SHL
648.0 -	560.0	SAL

CORING RECORD

INTERVAL	LOCATION	NO	MM

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.4		
DEVONIAN — PORT LAMBTON			
KETTLE POINT	22.0		
HAMILTON	45.0		
MARCELLUS			
DUNDEE	127.0		
COLUMBUS			
LUCAS	156.0		
AMHERSTBURG	225.0		
SYLVANIA			
BOIS BLANC	263.2		
SPRINGVALE			
ORISKANY			
SILURIAN — BASS ISLANDS	303.3		
G SHALE	343.0		
F SHALE	348.0		
F SALT			
E CARBONATE	376.0		
D SALT/EQUIVALENT	417.0		
C SHALE	432.0		
B MARKER	447.0		
B EQUIVALENT			
B SALT	452.0		
B ANHYDRITE			
A2 CARBONATE	533.0		
A2 SALT	576.0		
A2 ANHYDRITE	591.0		
A1 CARBONATE	594.0		
A1 SALT			
A1 ANHYDRITE	631.0		
GUELPH	640.0		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN — QUEENSTON			
BLUE MOUNTAIN GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Lambton TWP Brooke BLK TRAC 6-8 LOT 3 CON VIII
WELL NAME Forbes #3 Brooke 6-8-3-VIII PERMIT 6455 INIT CLASS NPW
OPERATOR Forbes, Terry TARGET DEV CUR STATUS OP

DRILLING DATA
CONTRACTOR J.E. English General Drilling
RIG TYPE CAB
CABLE TOP 0 BOT 161.5
ROTRY TOP BOT
DRLG FLD Oil & Water
DEPTHS
KB ELEV 210.2
LOGGER 161.5
DRILLER 161.5
DEEP END
PLUG BK

DATES
PERMIT 1984-03-19
SPUD 1984-03-13
COMPTD 1984-03-29
OFFCNF 1985-03-29
WRKOVR
ABNDND

COORDINATES
NORTH 76.0 m
SOUTH m
EAST m
WEST 76.0 m
LAT 42-50-35
LONG 81-59-03

SAMPLES
TOP 18.0
BOT 148.7
TRAY 1929

INITIAL GAS RECORD

INTERVAL	FLOW	SIP

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	10.8	19.1	SHO	
114		142.9	CEM	

COMPLETION DATA
GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m m m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
134.0 - 148.7		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0 - 160.9	GRNL	Computalog
117.0 - 160.9	DENL	Computalog

PERF OPEN HOLE

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
17.0 -	7.6	FRE

CORING RECORD

INTERVAL	LOCATION	NO	MM

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	0		
DEVONIAN — PORT LAMBTON			
KETTLE POINT			
HAMILTON	42.7		
MARCELLUS			
DUNDEE	121.6		
COLUMBUS			
LUCAS	146.6		
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
SILURIAN — BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN — QUEENSTON			
BLUE MOUNTAIN GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Lambton TWP Brooke BLK TRAC LOT 15 CON VII
WELL NAME Kingdon #6 Brooke 15-VII PERMIT 6585 INIT CLASS STR
OPERATOR 490900 Ontario Limited TARGET DEV CUR STATUS

DRILLING DATA
CONTRACTOR 490900 Ontario Ltd.
RIG TYPE CAB DEPTHS
CABLE TOP 0 KB ELEV 213.4
BOT 135.3 LOGGER
ROTARY TOP DRILLER 135.3
BOT DEEP END
DRLG FLD PLUG BK

DATES
PERMIT 1984-09-12
SPUD 1984-09-12
COMPTD 1984-09-24
OFFCNF 1985-09-24
WRKOVR
ABNDND 1984-09-28

COORDINATES
NORTH m
SOUTH 182.3 m
EAST 64.0 m
WEST m
LAT 42-50-29
LONG 81-53-59

SAMPLES
TOP 15.8
BOT 135.3
TRAY 137

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
14.9 –	Show	
54.9 –	.085	

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
127		16.8	SHO	16.8

COMPLETION DATA
GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m – m
PERF [ ] OPEN HOLE [ ]

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
15.2 –	1.8	FRE
134.7 –	61.0	SUL

CORING RECORD

INTERVAL	LOCATION	NO	MM

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	0		
DEVONIAN: PORT LAMBTON			
KETTLE POINT	15.2		
HAMILTON	42.9		
MARCELLUS			
DUNDEE	116.2		
COLUMBUS			
LUCAS			
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
SILURIAN: A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Lambton TWP Brooke BLK THAC 8 LOT 18 CON XI
WELL NAME Ram #79 Brooke 8-18-XI PERMIT 6597 INIT CLASS NPW
OPERATOR Ram Petroleums Limited TARGET Sal CUR STATUS DH-Abd

DRILLING DATA
CONTRACTOR Rawlings Drilling Co. Ltd.
RIG TYPE CAB DEPTHS
CABLE TOP 1.2 KB ELEV 226.8
BOT 541.6 LOGGER 540.5
ROTARY TOP DRILLER 541.6
BOT DEEP END
DRLG FLD Bring PLUG BK

DATES
PERMIT 1984-09-18
SPUD 1984-09-21
COMPTD 1984-10-19
OFFCNF 1985-10-19
WRKOVR
ABNDND 1984-10-26

COORDINATES
NORTH 228.5 m
SOUTH m
EAST m
WEST 149.8 m
LAT
LONG

SAMPLES
TOP 25.0
BOT 541.6
TRAY 6469

INITIAL GAS RECORD

INTERVAL	FLOW	SIP

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
274	60.0	25.1	SHO	25.1
220	35.7	123.1	SHO	123.1
178	29.8	326.5	CEM	251.4

COMPLETION DATA
GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m – m
PERF [ ] OPEN HOLE [ ]

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0 – 537.4	GRL	Schlumberger
315.2 – 539.8	DENL	"

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
155.4 –	54.9	SUL
501.4 –		SAL

CORING RECORD

INTERVAL	LOCATION	NO	MM

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.2		
DEVONIAN: PORT LAMBTON			
KETTLE POINT	25.0		
HAMILTON	39.6		
MARCELLUS			
DUNDEE	119.0		
COLUMBUS			
LUCAS	135.0		
AMHERSTBURG	201.6		
SYLVANIA			
BOIS BLANC	260.7		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	276.8		
G SHALE	313.9		
F SHALE	321.7		
F SALT			
E CARBONATE	352.3		
D SALT/EQUIVALENT	383.9		
C SHALE	386.2		
B MARKER	395.6		
B EQUIVALENT			
B SALT	404.0		
B ANHYDRITE			
A2 CARBONATE	466.2		
A2 SALT			
SILURIAN: A2 ANHYDRITE	496.8		
A1 CARBONATE	499.0		
A1 SALT			
A1 ANHYDRITE			
GUELPH	516.8		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Lambton TWP Brooke BLK TRAC 8 LOT 18 CON XI
WELL NAME Ram #78 Brooke 8-18-XI PERMIT 6560 INIT CLASS NPW
OPERATOR Ram Petroleums Ltd. TARGET SAL CUR STATUS OS-Abd

DRILLING DATA

CONTRACTOR Rawlings Drilling Co. Ltd.
RIG TYPE CAB DEPTHS
CABLE TOP 1.2 KB ELEV 226.6
BOT 596.8 LOGGER 596.2
ROTRY TOP DRILLER 596.8
BOT DEEP END
DRLG FLD Brine PLUG BK

DATES

PERMIT 1984-07-19
SPUD 1984-07-24
COMPTD 1984-08-29
OFFCNF 1985-08-29
WRKOVR
ABNDND 1984-09-06

COORDINATES

NORTH 243.8 m
SOUTH m
EAST m
WEST 274.3 m
LAT 42-52-57
LONG 81-52-40

SAMPLES

TOP 26.0
BOT 600.8
TRAY 777i

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
274	60.3	23.8	SHO	23.8
220	35.7	108.5	SHO	108.5
178	34.2	232.8	CEM	242.5

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
232.8 – 590.8	DLLM	Schlumberger
475.0 – 595.0	DIPM	"
10.0 – 587.8	CNFD	"
–		
–		
–		

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
161.5 –	61.0	SUL
574.5 –	15.2	SAL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.2		
DEVONIAN: PORT LAMBTON			
KETTLE POINT	25.7		
HAMILTON	40.5		
MARCELLUS			
DUNDEE	119.7		
COLUMBUS			
LUCAS	141.7		
AMHERSTBURG	214.8		
SYLVANIA			
BOIS BLANC	266.0		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	279.4		
G SHALE	316.0		
F SHALE	323.5		
F SALT			
E CARBONATE	353.8		
D SALT/EQUIVALENT	385.2		
C SHALE	388.0		
B MARKER	397.7		
B EQUIVALENT			
B SALT	406.5		
B ANHYDRITE			
A2 CARBONATE	424.3		
A2 SALT			
SILURIAN: A2 ANHYDRITE	534.0		
A1 CARBONATE	537.0		
A1 SALT			
A1 ANHYDRITE	576.3		
GUELPH	580.0		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Lambton TWP Brooke BLK TRAC 5 LOT 24 CON X
WELL NAME Ram #77 Brooke 24-X PERMIT 6525 INIT CLASS NPW
OPERATOR Ram Petroleums Ltd. TARGET DEV CUR STATUS OP

DRILLING DATA

CONTRACTOR W G Water Wells Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 225.2
BOT LOGGER 142.0
ROTRY TOP 1.1 DRILLER 143.2
BOT 143.2 DEEP END
DRLG FLD Fresh Water PLUG BK

DATES

PERMIT 1984-06-07
SPUD 1984-06-11
COMPTD 1984-06-13
OFFCNF 1985-06-13
WRKOVR
ABNDND

COORDINATES

NORTH m
SOUTH 758.0 m
EAST m
WEST 75.4 m
LAT 42-52-25
LONG 81-04-36

SAMPLES

TOP 32.4
BOT 99.7
TRAY 72

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	25.3	30.5	CEM	
114	11.1	141.3	CEM	

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
106.7 – 109.1		
110.8 – 111.1		
121.6 – 128.0		
132.0 – 132.6		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
24.5 – 133.8	CNFD	Schlumberger
–		
–		
–		
–		

PERF ☒ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
135.3 – 143.2		SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
100.5 – 137.2	COM		Y
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.1		
DEVONIAN: PORT LAMBTON			
KETTLE POINT	19.8		
HAMILTON	27.2		
MARCELLUS			
DUNDEE	106.2		
COLUMBUS			
LUCAS			
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
SILURIAN: A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Lambton TWP Dawn BLK TRAC 5 LOT 19 CON 1
WELL NAME Union Dawn 250 Dawn 19-I PERMIT 6241 INIT CLASS NCS
OPERATOR Union Gas Limited TARGET SAL CUR STATUS NCS

DRILLING DATA

CONTRACTOR	James Newport Drilling Ltd.	DEPTHS	
RIG TYPE	CAB	KB ELEV	190.4
CABLE TOP	1.3	LOGGER	545.3
BOT	546.0	DRILLER	546.0
ROTRY TOP		DEEP END	
BOT		PLUG BK	
DRLG FLD	Dry		

DATES

PERMIT	1983-05-03
SPUD	1984-01-17
COMPTD	1984-01-09
OFFCNF	1985-03-09
WRKOVR	
ABNDND	

COORDINATES

NORTH	333.4	m
SOUTH		m
EAST	719.1	m
WEST		m
LAT	42-40-40	
LONG	82-14-06	

SAMPLES

TOP	21.5
BOT	545.0
TRAY	8301

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
162.0 –	SHOW	
468.0 – 470.0	SHOW	
491.0 – 545.3		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	71.5	22.9	SHO	
273	60.3	148.1	SHO	148.1
219	35.7	383.4	CEM	
178	29.8	490.0	CEM	

COMPLETION DATA

GAS	$10^3 m^3/d$
OIL	m^3/d
SIP	kPa
FORM	GUELPH
INTRVL	490.1 – 545.3 m
	m
	m
PERF	OPEN HOLE X

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0 – 543.0	GRNL	Computalog
490.0 – 545.0	DENL	"
2.5 – 468.0	CBND	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
20.0 –		FRE
162.0 – 165.0	21.0	SUL

CORING RECORD

INTERVAL	LOCATION	NO	Analy

REMARKS

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.3		
PORT LAMBTON			
KETTLE POINT	21.3		
HAMILTON	79.0		
MARCELLUS			
DUNDEE	148.0		
COLUMBUS			
LUCAS	174.0		
AMHERSTBURG	250.2		
SYLVANIA			
BOIS BLANC	270.0		
SPRINGVALE			
ORISKANY			
BASS ISLANDS	332.5		
G SHALE	365.0		
F SHALE	371.3		
F SALT			
E CARBONATE	402.9		
D SALT/EQUIVALENT			
C SHALE	436.5		
B MARKER	447.4		
B EQUIVALENT	453.4		
B SALT			
B ANHYDRITE			
A2 CARBONATE	462.0		
A2 SALT			
A2 ANHYDRITE	488.3		
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH	490.0		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY: Debra K. Parker

CTY Lambton TWP Dawn BLK TRAC LOT 19 CON 1
WELL NAME Union Dawn 247 Dawn 19-I PERMIT 6242 & 6517 INIT CLASS NCS
OPERATOR Union Gas Limited TARGET SAL CUR STATUS NCS

DRILLING DATA

CONTRACTOR	James Newport Drilling Ltd.	DEPTHS	
RIG TYPE	CAB & ROT	KB ELEV	190.2
CABLE TOP	1.3	LOGGER	536.9
BOT	481.9	DRILLER	544.3
ROTRY TOP	481.9	DEEP END	
BOT	544.3	PLUG BK	
DRLG FLD	Brine		

DATES

PERMIT	1983-05-03
SPUD	1983-09-08
COMPTD	1984-06-11
OFFCNF	1985-06-11
WRKOVR	
ABNDND	

COORDINATES

NORTH	270.5	m
SOUTH		m
EAST	417.8	m
WEST		m
LAT	42-40-39	
LONG	82-14-19	

SAMPLES

TOP	22.5
BOT	481.9
TRAY	307-8

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
152.5 –	Show	
156.0 –	Show	
460.0 –	Show	
480.6 – 547.0		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	71.5	23.3	SHO	
273	60.3	152.2	SHO	
219	35.7	377.6	CEM	
178	34.1	481.0	CEM	

COMPLETION DATA

GAS	$10^3 m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF	OPEN HOLE X

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
180.0 – 183.0	Trace	

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0 – 534.7	GRNL	Computalog
479.3 – 536.5	DENL	"
1.8 – 364.5	CBND	"
478.0 – 532.8	DLLM	Schlumberger
4.0 – 536.2	CNFD	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
22.0 –		FRE
153.0 –		SUL

CORING RECORD

INTERVAL	LOCATION	NO	Analy
483.7 – 544.3	PRL	873	Y

REMARKS

Issued under permit 6517 when 6242 expired. Rotary drilling was done by Underwater Gas Developers Ltd. and Treatment was done by Charles Rose.

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.3		
PORT LAMBTON			
KETTLE POINT	21.6		
HAMILTON	77.5		
MARCELLUS			
DUNDEE	143.7		
COLUMBUS			
LUCAS	161.8		
AMHERSTBURG	221.2		
SYLVANIA			
BOIS BLANC	259.5		
SPRINGVALE			
ORISKANY			
BASS ISLANDS	323.3		
G SHALE	357.2		
F SHALE	363.6		
F SALT			
E CARBONATE	395.5		
D SALT/EQUIVALENT	427.5		
C SHALE	429.2		
B MARKER	439.7		
B EQUIVALENT	445.0		
B SALT			
B ANHYDRITE	455.2		
A2 CARBONATE	457.5		
A2 SALT			
A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH	479.8		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY: Debra K. Parker

CTY Lambton TWP Dawn BLK TRAC 4 LOT 19 CON I
WELL NAME Union Dawn 251 Dawn 19-I PERMIT 6240 INIT CLASS NCS
OPERATOR Union Gas Limited TARGET SAL CUR STATUS NCS

DRILLING DATA

CONTRACTOR Charles Shaw Drilling Co.
RIG TYPE CAB DEPTHS
CABLE TOP 1.2 KB ELEV 190.1
BOT 546.0 LOGGER 545.0
ROTRY TOP DRILLER 546.0
BOT DEEP END
DRLG FLD Dry PLUG BK

DATES

PERMIT 1983-05-03
SPUD 1984-01-16
COMPTD 1984-03-07
OFFCNF 1985-03-07
WRKOVR
ABNDND

COORDINATES

NORTH 382.4 m
SOUTH m
EAST 491.3 m
WEST m
LAT 42-40-42
LONG 82-14-16

SAMPLES

TOP 23.0
BOT 546.0
TRAY
6494-6495

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
151.5 – 155.0	SHOW	
460.0 –	SHOW	
484.0 – 545.0		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	71.4	23.0	SHO	
273	60.3	148.3	SHO	130.5
219	35.7	476.2	CEM	
178	29.8	482.0	CEM	

COMPLETION DATA

GAS $10^3m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL 482.3 – 545.0 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
168.0 – 169.0	SHOW	

LOGGING RECORD

INTERVAL	TYPE	COMPANY
6.5 – 471.0	CBND	Computalog
481.8 – 545.0	DENL	"
0 – 542.8	GRNL	"

PERF ☐ OPEN HOLE ☒

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
22.0 –	10.0	FRE
180.0 –	45.0	SUL

CORING RECORD

INTERVAL	LOCATION	NO	ANAL

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.2		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT	21.3		
DEVONIAN: HAMILTON	79.6		
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	147.2		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS	168.0		
DEVONIAN: AMHERSTBURG			
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC	256.6		
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS	326.6		
SILURIAN: G SHALE	358.7		
SILURIAN: F SHALE	362.0		
SILURIAN: F SALT			
SILURIAN: E CARBONATE	398.5		
SILURIAN: D SALT/EQUIVALENT			
SILURIAN: C SHALE	430.7		
SILURIAN: B MARKER	440.7		
SILURIAN: B EQUIVALENT	446.2		
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE			
SILURIAN: A2 CARBONATE	455.2		
SILURIAN: A2 SALT			
SILURIAN: A2 ANHYDRITE			
SILURIAN: A1 CARBONATE			
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH	482.5		
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/WIARTON			
SILURIAN: DECEW			
SILURIAN: ROCHESTER			
SILURIAN: IRONDEQUOIT			
SILURIAN: REYNALES/FOSSIL HILL			
SILURIAN: THOROLD			
SILURIAN: GRIMSBY			
SILURIAN: CABOT HEAD			
SILURIAN: MANITOULIN			
SILURIAN: WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
ORDOVICIAN: BLUE MOUNTAIN GEORG BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Lambton TWP Dawn BLK TRAC 2-3 LOT 19 CON XII
WELL NAME Burtnyk-Bryant Dawn 19-XII PERMIT 6577 INIT CLASS NPW
OPERATOR Roger Burtnyk TARGET DEV CUR STATUS OS-GS-Susp

DRILLING DATA

CONTRACTOR Circle "A" Drilling Inc.
RIG TYPE CAB DEPTHS
CABLE TOP 0.8 KB ELEV 199.2
BOT 115.0 LOGGER 100.0
ROTRY TOP DRILLER 115.0
BOT DEEP END
DRLG FLD PLUG BK 100.0

DATES

PERMIT 1984-08-21
SPUD 1984-08-30
COMPTD 1984-08-23
OFFCNF 1985-08-23
WRKOVR
ABNDND

COORDINATES

NORTH m
SOUTH 85.3 m
EAST m
WEST 396.2 m
LAT 42-40-30
LONG 82-02-48

SAMPLES

TOP 0
BOT 115.0
TRAY 314

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
107.0 – 108.0	Show	417

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219	35.7	12.5	SHO	0.8
140	20.8	86.9	CEM	

COMPLETION DATA

GAS $10^3m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
90.0 – 99.0	Show	
107.0 – 108.0	Show	

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0.3 – 97.5	GRNL	Computalog
56.4 – 99.4	DENL	"

PERF ☐ OPEN HOLE ☒

REMARKS

Columbus facies is present in the Lucas at 108.4 m.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
107.0 –	46.0	SUL

CORING RECORD

INTERVAL	LOCATION	NO	ANAL

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	0.8		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT			
DEVONIAN: HAMILTON			
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	71.6		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS	100.0		
DEVONIAN: AMHERSTBURG			
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC			
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS			
SILURIAN: G SHALE			
SILURIAN: F SHALE			
SILURIAN: F SALT			
SILURIAN: E CARBONATE			
SILURIAN: D SALT/EQUIVALENT			
SILURIAN: C SHALE			
SILURIAN: B MARKER			
SILURIAN: B EQUIVALENT			
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE			
SILURIAN: A2 CARBONATE			
SILURIAN: A2 SALT			
SILURIAN: A2 ANHYDRITE			
SILURIAN: A1 CARBONATE			
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH			
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/WIARTON			
SILURIAN: DECEW			
SILURIAN: ROCHESTER			
SILURIAN: IRONDEQUOIT			
SILURIAN: REYNALES/FOSSIL HILL			
SILURIAN: THOROLD			
SILURIAN: GRIMSBY			
SILURIAN: CABOT HEAD			
SILURIAN: MANITOULIN			
SILURIAN: WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
ORDOVICIAN: BLUE MOUNTAIN - GEORG. BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Lambton TWP Dawn BLK TRAC 3 LOT 22 CON 1
WELL NAME Forbes #31 Dawn 3-22-1 PERMIT 6598 INIT CLASS NPW
OPERATOR Forbes Resources Inc. TARGET SAL CUR STATUS GS-Abd

DRILLING DATA
CONTRACTOR James Newport Drilling Ltd.
RIG TYPE CAB DEPTHS
CABLE TOP 1.4 KB ELEV 192.1
BOT 601.0 LOGGER 599.6
ROTRY TOP DRILLER 601.0
BOT DEEP END
DRLG FLD SAL Water PLUG BK

DATES
PERMIT 1984-09-21
SPUD 1984-09-27
COMPTD 1984-10-31
OFFCNF 1985-10-31
WRKOVR
ABNDND 1984-11-05

COORDINATES
NORTH m
SOUTH 182.9 m
EAST m
WEST 563.0 m
LAT 42-41-44
LONG 82-14-00

SAMPLES
TOP 20.0
BOT 601.0
TRAY 840

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
548.0 –	Show	
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		20.6	SHO	20.6
219		172.4	SHO	154.4
178		371.6	CEM	294.0

COMPLETION DATA
GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF [ ] OPEN HOLE [ ]

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
468.0 – 597.2	GRNL	Computalog
522.0 – 599.5	DENL	"
–		
–		
–		
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
18.0 –		FRE
210.0 – 213.0	55.0	SUL
588.0 –	458.0	SAL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	MAG
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.4		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON	100.0		
MARCELLUS			
DUNDEE	176.2		
COLUMBUS			
LUCAS	197.0		
AMHERSTBURG	222.0		
SYLVANIA			
BOIS BLANC	284.1		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	321.9		
G SHALE	365.1		
F SHALE	371.8		
F SALT			
E CARBONATE	400.0		
D SALT/EQUIVALENT	438.0		
C SHALE	441.0		
B MARKER	451.1		
B EQUIVALENT			
B SALT	468.4		
B ANHYDRITE			
A2 CARBONATE	494.2		
A2 SALT	538.0		
SILURIAN: A2 ANHYDRITE			
A1 CARBONATE	547.0		
A1 SALT			
A1 ANHYDRITE	569.3		
GUELPH	570.0		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY:

CTY Lambton TWP Dawn BLK TRAC 4 LOT 25 CON 1
WELL NAME Forbes #32 Dawn 4-25-I PERMIT 6599 INIT CLASS NPW
OPERATOR Forbes Resources Inc. TARGET SAL CUR STATUS OS-Abd

DRILLING DATA
CONTRACTOR James Newport Drilling LTd.
RIG TYPE CAB DEPTHS
CABLE TOP 1.2 KB ELEV 192.8
BOT 612.0 LOGGER
ROTRY TOP DRILLER 612.0
BOT DEEP END
DRLG FLD PLUG BK

DATES
PERMIT 1984-09-21
SPUD 1984-10-02
COMPTD 1984-11-07
OFFCNF 1985-11-07
WRKOVR
ABNDND 1984-11-13

COORDINATES
NORTH 127.4 m
SOUTH m
EAST m
WEST 502.1 m
LAT 42-42-33
LONG 82-13-56

SAMPLES
TOP 24.0
BOT 612.0
TRAY 896

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		24.7	SHO	24.7
219		143.6	SHO	143.6
178		341.0	CEM	254.0

COMPLETION DATA
GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF [ ] OPEN HOLE [ ]

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
612.0 –	Trace	
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
24.0 –		FRE
157.0 –	40.0	SUL
612.0 –	604.0	SAL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	MAG
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.2		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON	73.5		
MARCELLUS			
DUNDEE	144.0		
COLUMBUS			
LUCAS	166.0		
AMHERSTBURG	233.8		
SYLVANIA			
BOIS BLANC	254.1		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	283.6		
G SHALE	328.0		
F SHALE	334.0		
F SALT			
E CARBONATE	368.0		
D SALT/EQUIVALENT	402.1		
C SHALE	404.8		
B MARKER	417.0		
B EQUIVALENT	424.2		
B SALT	431.0		
B ANHYDRITE			
A2 CARBONATE	499.0		
A2 SALT	543.0		
SILURIAN: A2 ANHYDRITE	558.0		
A1 CARBONATE	561.0		
A1 SALT			
A1 ANHYDRITE	598.0		
GUELPH	604.8		
ERAMOSA			
GOAT ISLAND	608.0		
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY:

CTY Lambton TWP Dawn BLK TRAC 1 LOT 26 CON II
WELL NAME Forbes #34 Dawn 1-26-II PERMIT 6628 INIT CLASS DEV
OPERATOR Forbes Resources Inc. TARGET SAL CUR STATUS DH-Abd

DRILLING DATA

CONTRACTOR James Newport
RIG TYPE CAB DEPTHS
CABLE TOP 1.2 KB ELEV 192.5
BOT 605.0 LOGGER 605.6
ROTRY TOP DRILLER 605.0
BOT DEEP END
DRLG FLD PLUG BK

DATES

PERMIT 1984-11-14
SPUD 1984-11-22
COMPTD 1984-12-18
OFFCNF 1985-01-18
WRKOVR
ABNDND 1984-12-21

COORDINATES

NORTH 109.7 m
SOUTH m
EAST m
WEST 335.3 m
LAT 42-42-52
LONG 82-13-46

SAMPLES

TOP 22.0
BOT 608.0
TRAY 940

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		23.8	SHO	
219		140.7	SHO	
178		332.2	CEM	

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
598.0 – 601.0	Trace	
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
394.5 – 603.4	GRNL	Computalog
–		
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
21.0 – 22.0		FRE
172.0 –		SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.2		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT	22.0		
DEVONIAN: HAMILTON	69.5		
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	138.0		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS	162.8		
DEVONIAN: AMHERSTBURG	232.0		
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC	268.7		
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS	281.6		
SILURIAN: G SHALE	327.2		
SILURIAN: F SHALE	334.0		
SILURIAN: F SALT			
SILURIAN: E CARBONATE	360.3		
SILURIAN: D SALT/EQUIVALENT	392.4		
SILURIAN: C SHALE	406.6		
SILURIAN: B MARKER	418.0		
SILURIAN: B EQUIVALENT	424.2		
SILURIAN: B SALT	427.6		
SILURIAN: B ANHYDRITE			
SILURIAN: A2 CARBONATE	497.5		
SILURIAN: A2 SALT	536.2		

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
A2 ANHYDRITE	553.0		
A1 CARBONATE	554.6		
A1 SALT			
A1 ANHYDRITE	595.0		
GUELPH	600.0		
ERAMOSA			
GOAT ISLAND	604.0		
SILURIAN: GASPORT/WIARTON			
SILURIAN: DECEW			
SILURIAN: ROCHESTER			
SILURIAN: IRONDEQUOIT			
SILURIAN: REYNALES/FOSSIL HILL			
SILURIAN: THOROLD			
SILURIAN: GRIMSBY			
SILURIAN: CABOT HEAD			
SILURIAN: MANITOULIN			
SILURIAN: WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
ORDOVICIAN: BLUE MOUNTAIN - GEORG. BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY: Lambton TWP: Dawn BLK: TRAC: 1 LOT: 26 CON: II
WELL NAME Forbes #26 Dawn 1-26-II PERMIT 6458 INIT CLASS: DEV
OPERATOR Forbes Resources Inc. TARGET SAL CUR STATUS: OP-CS

DRILLING DATA

CONTRACTOR: James Newport Drilling Ltd.
RIG TYPE CAB DEPTHS
CABLE TOP 1.2 KB ELEV: 192.8
BOT 604.0 LOGGER: 603.4
ROTRY TOP DRILLER: 604.0
BOT DEEP END:
DRLG FLD Water PLUG BK:

DATES

PERMIT: 1984-03-27
SPUD: 1984-03-27
COMPTD: 1984-04-18
OFFCNF: 1984-05-18
WRKOVR:
ABNDND: 1984-08-21

COORDINATES

NORTH: 109.7 m
SOUTH: m
EAST: m
WEST: 94.5 m
LAT: 42-42-51
LONG: 82-12-34

SAMPLES

TOP: 0
BOT: 604.0
TRAY: 7

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
571.0 –	SHOW	
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		24.2	SHO	
219		138.1	SHO	138.1
178		335.5	CEM	
140		603.6	CEM	

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
590.0 –	SHOW	
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
375.0 – 559.5	GRNL	Computalog
449.4 – 601.8	DENL	Computalog
–		
–		
–		
–		

PERF ☒ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
172.0 – 175.0	80.0	SUL
590.0 –		SAL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.2		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT	20.0		
DEVONIAN: HAMILTON	68.0		
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	136.0		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS	165.0		
DEVONIAN: AMHERSTBURG	230.1		
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC	268.3		
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS	284.2		
SILURIAN: G SHALE	328.1		
SILURIAN: F SHALE	336.0		
SILURIAN: F SALT			
SILURIAN: E CARBONATE	361.2		
SILURIAN: D SALT/EQUIVALENT	392.0		
SILURIAN: C SHALE	406.2		
SILURIAN: B MARKER	416.8		
SILURIAN: B EQUIVALENT	421.4		
SILURIAN: B SALT	430.5		
SILURIAN: B ANHYDRITE			
SILURIAN: A2 CARBONATE	493.0		
SILURIAN: A2 SALT	535.6		

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
A2 ANHYDRITE	547.5		
A1 CARBONATE	550.7		
A1 SALT			
A1 ANHYDRITE	584.2		
GUELPH	587.5		
ERAMOSA			
GOAT ISLAND	599.0		
SILURIAN: GASPORT/WIARTON			
SILURIAN: DECEW			
SILURIAN: ROCHESTER			
SILURIAN: IRONDEQUOIT			
SILURIAN: REYNALES/FOSSIL HILL			
SILURIAN: THOROLD			
SILURIAN: GRIMSBY			
SILURIAN: CABOT HEAD			
SILURIAN: MANITOULIN			
SILURIAN: WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
ORDOVICIAN: BLUE MOUNTAIN - GEORG. BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Lambton TWP Dawn BLK TRAC 1 LOT 26 CON II
WELL NAME Forbes #29 Dawn 1-26-II PERMIT 6526 INIT CLASS DEV
OPERATOR Forbes Resources Inc. TARGET SAL CUR STATUS OP

DRILLING DATA

CONTRACTOR James Newport Drilling Ltd.
RIG TYPE CAB
CABLE TOP 1.2 KB ELEV 192.9
BOT 602.0 LOGGER 602.0
ROTRY TOP DRILLER 602.4
BOT DEEP END
DRLG FLD PLUG BK

DATES

PERMIT 1984-06-08
SPUD 1984-06-26
COMPTD 1984-07-20
OFFCNF 1984-08-20
WRKOVR
ABNDND

COORDINATES

NORTH 109.7 m
SOUTH m
EAST m
WEST 152.4 m
LAT 42-42-51
LONG 82-12-39

SAMPLES

TOP 21.0
BOT 603.0
TRAY 7101

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
558.0 – 560.0	Show	

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	59.5	22.1	SHO	
219	35.7	136.9	SHO	136.9
178	34.2	333.4	CEM	
114	156.3	589.0	CEM	

COMPLETION DATA

GAS Show $10^3m^3/d$
OIL 0.2 m^3/d
SIP kPa
FORM Guelph
INTRVL 595.0 – 596.0 m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
595.0 – 596.0	0.2	

LOGGING RECORD

INTERVAL	TYPE	COMPANY
396.0 – 602.0	GRNL	Computalog
548.6 – 602.0	DENL	"

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
22.0 –		FRE
171.0 – 174.0	120.0	SUL

CORING RECORD

INTERVAL	LOCATION	NO	Amds

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.2		
DEVONIAN: PORT LAMBTON			
KETTLE POINT	23.0		
HAMILTON	68.3		
MARCELLUS			
DUNDEE	133.5		
COLUMBUS			
LUCAS	163.5		
AMHERSTBURG	230.2		
SYLVANIA			
BOIS BLANC	271.1		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	287.0		
G SHALE	329.2		
F SHALE	337.5		
F SALT			
E CARBONATE	367.0		
D SALT/EQUIVALENT	396.2		
C SHALE	407.8		
B MARKER	418.8		
B EQUIVALENT	425.2		
B SALT	431.3		
B ANHYDRITE			
A2 CARBONATE	491.2		
A2 SALT	535.5		
SILURIAN: A2 ANHYDRITE	551.7		
A1 CARBONATE	552.3		
A1 SALT			
A1 ANHYDRITE	587.0		
GUELPH	590.7		
ERAMOSA			
GOAT ISLAND	602.0		
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Lambton TWP Dawn BLK TRAC 6 LOT 26 CON III
WELL NAME Forbes #27 Dawn 6-26-III PERMIT 6494 INIT CLASS DEV
OPERATOR Forbes Resources Inc. TARGET SAL CUR STATUS OP

DRILLING DATA

CONTRACTOR James Newport Drilling Ltd.
RIG TYPE CAB
CABLE TOP 1.4 KB ELEV 193.9
BOT 602.0 LOGGER 602.0
ROTRY TOP DRILLER 602.0
BOT DEEP END
DRLG FLD Oil & Water PLUG BK

DATES

PERMIT 1984-05-10
SPUD 1984-05-04
COMPTD 1984-06-01
OFFCNF 1984-07-01
WRKOVR
ABNDND

COORDINATES

NORTH m
SOUTH 110.5 m
EAST 512.2 m
WEST m
LAT 42-43-03
LONG 82-12-07

SAMPLES

TOP 20.0
BOT 602.0
TRAY 301

INITIAL GAS RECORD

INTERVAL	FLOW	SIP

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	59.5	21.6	SHO	
219	35.7	129.0	SHO	129.0
178	29.8	323.5	CEM	
114	14.1	589.0	CEM	

COMPLETION DATA

GAS $10^3m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☒

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
594.0 – 596.0	SHOW	

LOGGING RECORD

INTERVAL	TYPE	COMPANY
373.0 – 599.8	GRNL	Computalog
544.5 – 601.2	DENL	Computalog

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
18.0 – 20.0		FRE
160.0 – 164.0	45.0	SUL
594.0 – 596.0	SHOW	SAL

CORING RECORD

INTERVAL	LOCATION	NO	Amds

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.4		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON	60.5		
MARCELLUS			
DUNDEE	128.0		
COLUMBUS			
LUCAS	164.2		
AMHERSTBURG	222.0		
SYLVANIA			
BOIS BLANC	245.3		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	279.8		
G SHALE	308.9		
F SHALE	322.7		
F SALT			
E CARBONATE	377.0		
D SALT/EQUIVALENT			
C SHALE	402.0		
B MARKER	413.0		
B EQUIVALENT			
B SALT	420.0		
B ANHYDRITE			
A2 CARBONATE	496.8		
A2 SALT	534.7		
SILURIAN: A2 ANHYDRITE	548.8		
A1 CARBONATE	550.3		
A1 SALT			
A1 ANHYDRITE	587.3		
GUELPH	588.5		
ERAMOSA			
GOAT ISLAND	599.8		
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Lambton TWP Dawn BLK TRAC 4 LOT 26 CON V
WELL NAME Forbes #28 Dawn 4-26-V PERMIT 6516 INIT CLASS NPW
OPERATOR Forbes Resources Inc. TARGET SAL CUR STATUS DH-ABD

DRILLING DATA

CONTRACTOR James Newport Drilling Ltd.
RIG TYPE CAB DEPTHS
CABLE TOP 1.4 KB ELEV 200.1
BOT 600.0 LOGGER
ROTRY TOP DRILLER 600.0
BOT DEEP END
DRLG FLD PLUG BK

DATES

PERMIT 1984-05-10
SPUD 1984-05-15
COMPTD 1984-06-12
OFFCNF 1985-06-12
WRKOVR
ABNDND 1984-06-20

COORDINATES

NORTH 112.8 m
SOUTH m
EAST m
WEST 521.2 m
LAT 42-42-48
LONG 82-09-54

SAMPLES

TOP 0
BOT 600.0
TRAY 486

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		22.2	SHO	22.2
219		136.8	SHO	136.8
178		341.1	CEM	265.7

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF [ ] OPEN HOLE [ ]

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
21.0 – 22.0		FRE
146.0 – 149.0	50.0	SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANA
–			
–			
–			
–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.4		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT	22.2		
DEVONIAN	HAMILTON	66.0		
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE	136.0		
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS	160.0		
DEVONIAN	AMHERSTBURG	228.7		
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	249.1		
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY			
SILURIAN	BASS ISLANDS	294.0		
SILURIAN	G SHALE	322.2		
SILURIAN	F SHALE	335.1		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	375.0		
SILURIAN	D SALT/EQUIVALENT			
SILURIAN	C SHALE	407.9		
SILURIAN	B MARKER	426.1		
SILURIAN	B EQUIVALENT	432.2		
SILURIAN	B SALT	441.0		
SILURIAN	B ANHYDRITE			
SILURIAN	A2 CARBONATE	488.1		
SILURIAN	A2 SALT	532.0		
SILURIAN	A2 ANHYDRITE			
SILURIAN	A1 CARBONATE	547.0		
SILURIAN	A1 SALT			
SILURIAN	A1 ANHYDRITE	583.0		
SILURIAN	GUELPH	591.0		
SILURIAN	ERAMOSA			
SILURIAN	GOAT ISLAND	597.0		
SILURIAN	GASPORT/WIARTON			
SILURIAN	DECEW			
SILURIAN	ROCHESTER			
SILURIAN	IRONDEQUOIT			
SILURIAN	REYNALES/FOSSIL HILL			
SILURIAN	THOROLD			
SILURIAN	GRIMSBY			
SILURIAN	CABOT HEAD			
SILURIAN	MANITOULIN			
SILURIAN	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
ORDOVICIAN	BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG			
ORDOVICIAN	VERULAM			
ORDOVICIAN	KIRKFIELD			
ORDOVICIAN	COBOCONK			
ORDOVICIAN	GULL RIVER			
ORDOVICIAN	SHADOW LAKE			
CAMBRIAN	CAMBRIAN			
PRECAMBRIAN	PRECAMBRIAN			

GEOLOGY BY

CTY Lambton TWP Dawn BLK TRAC 3 LOT 27 CON II
WELL NAME Forbes #25 Dawn 3-27-II PERMIT 6435 INIT CLASS DEV
OPERATOR Forbes Resources Inc. TARGET SAL CUR STATUS DH-ABD

DRILLING DATA

CONTRACTOR James Newport Drilling Ltd -
RIG TYPE CAB DEPTHS
CABLE TOP 1.2 KB ELEV 192.5
BOT 611.0 LOGGER
ROTRY TOP DRILLER 611.0
BOT DEEP END
DRLG FLD PLUG BK

DATES

PERMIT 1984-01-27
SPUD 1984-02-10
COMPTD 1984-03-09
OFFCNF 1984-04-09
WRKOVR
ABNDND 1984-03-19

COORDINATES

NORTH m
SOUTH 107.3 m
EAST m
WEST 499.3 m
LAT 42-43-24
LONG 82-12-52

SAMPLES

TOP 22.0
BOT 611.0
TRAY 8243

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		23.4	SHO	23.4
219		133.8	SHO	133.8
178		328.3	CEM	210.8

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF [ ] OPEN HOLE [ ]

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
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–		
–		
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
21.0 –		FRE
168.0 –		SUL
608.0 – 611.0		SAL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANA
–			
–			
–			
–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT			
DEVONIAN	HAMILTON	61.0		
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE	131.0		
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS	159.2		
DEVONIAN	AMHERSTBURG	226.3		
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	261.0		
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY			
SILURIAN	BASS ISLANDS	282.1		
SILURIAN	G SHALE	313.3		
SILURIAN	F SHALE	324.0		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	359.0		
SILURIAN	D SALT/EQUIVALENT			
SILURIAN	C SHALE	405.5		
SILURIAN	B MARKER	414.0		
SILURIAN	B EQUIVALENT			
SILURIAN	B SALT	423.0		
SILURIAN	B ANHYDRITE			
SILURIAN	A2 CARBONATE	497.0		
SILURIAN	A2 SALT	542.0		
SILURIAN	A2 ANHYDRITE	559.0		
SILURIAN	A1 CARBONATE	561.0		
SILURIAN	A1 SALT			
SILURIAN	A1 ANHYDRITE	595.0		
SILURIAN	GUELPH	603.0		
SILURIAN	ERAMOSA			
SILURIAN	GOAT ISLAND	609.0		
SILURIAN	GASPORT/WIARTON			
SILURIAN	DECEW			
SILURIAN	ROCHESTER			
SILURIAN	IRONDEQUOIT			
SILURIAN	REYNALES/FOSSIL HILL			
SILURIAN	THOROLD			
SILURIAN	GRIMSBY			
SILURIAN	CABOT HEAD			
SILURIAN	MANITOULIN			
SILURIAN	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
ORDOVICIAN	BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG			
ORDOVICIAN	VERULAM			
ORDOVICIAN	KIRKFIELD			
ORDOVICIAN	COBOCONK			
ORDOVICIAN	GULL RIVER			
ORDOVICIAN	SHADOW LAKE			
CAMBRIAN	CAMBRIAN			
PRECAMBRIAN	PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Lambton TWP Dawn BLK TRAC LOT 28 CON II
WELL NAME Forbes #30 Dawn 28-II PERMIT 6527 INIT CLASS DEV
OPERATOR Forbes Resources Inc. TARGET SAI CUR STATUS OS-ABD

DRILLING DATA
CONTRACTOR James Newport Drilling Ltd.
RIG TYPE CAB
CABLE TOP 1.4 KB ELEV 191.1
BOT 611.0 LOGGER
ROTRY TOP DRILLER 611.0
BOT DEEP END
DRLG FLD PLUG BK

DATES
PERMIT 1984-06-07
SPUD 1984-06-11
COMPTD 1984-07-11
OFFCNF 1984-08-11
WRKOVR
ABNDND 1984-07-17

COORDINATES
NORTH 185.9 m
SOUTH m
EAST m
WEST 554.7 m
LAT 42-43-34
LONG 82-12-54

SAMPLES
TOP 22.0
BOT 611.0
TRAY 7341

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		23.0	SHO	23.0
219		129.4	SHO	129.4
178		328.1	CEM	240.1

COMPLETION DATA
GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF OPEN HOLE

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
602.0 – 604.0	SHOW	
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
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–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
21.0 –		FRE
162.0 – 165.0		SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	Abs
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.4		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON	58.0		
MARCELLUS			
DUNDEE	129.0		
COLUMBUS			
LUCAS	149.3		
AMHERSTBURG	220.2		
SYLVANIA			
BOIS BLANC	242.0		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	280.0		
G SHALE	324.5		
F SHALE	330.1		
F SALT			
E CARBONATE	359.8		
D SALT/EQUIVALENT			
C SHALE	403.6		
B MARKER	416.1		
B EQUIVALENT	427.0		
B SALT	430.4		
B ANHYDRITE			
A2 CARBONATE	498.0		
A2 SALT	542.0		
SILURIAN: A2 ANHYDRITE			
A1 CARBONATE	559.0		
A1 SALT			
A1 ANHYDRITE	594.6		
GUELPH	600.0		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Lambton TWP Dawn BLK TRAC 8 LOT 29 CON III
WELL NAME Forbes #33 Dawn 8-29-III PERMIT 6627 INIT CLASS DEV
OPERATOR Forbes Resources Inc. TARGET SAI CUR STATUS DH-Abd

DRILLING DATA
CONTRACTOR James Newport
RIG TYPE CAB
CABLE TOP 1.4 KB ELEV 194.5
BOT 614.0 LOGGER
ROTRY TOP DRILLER 614.0
BOT DEEP END
DRLG FLD PLUG BK

DATES
PERMIT 1984-11-14
SPUD 1984-11-09
COMPTD 1984-12-10
OFFCNF 1985-01-10
WRKOVR
ABNDND 1984-12-13

COORDINATES
NORTH 159.2 m
SOUTH m
EAST 113.0 m
WEST m
LAT 42-43-52
LONG 82-12-24

SAMPLES
TOP 19.0
BOT 614.0
TRAY 929

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		19.9	SHO	19.9
219		127.8	SHO	127.8
178		329.6	CEM	232.4

COMPLETION DATA
GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
18.0 – 19.0		FRE
165.0 – 168.0		SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	Abs
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.4		
DEVONIAN: PORT LAMBTON			
KETTLE POINT	19.0		
HAMILTON	55.5		
MARCELLUS			
DUNDEE	125.0		
COLUMBUS			
LUCAS	150.0		
AMHERSTBURG	222.0		
SYLVANIA			
BOIS BLANC	245.4		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	283.0		
G SHALE	326.0		
F SHALE	333.1		
F SALT			
E CARBONATE	359.0		
D SALT/EQUIVALENT	397.1		
C SHALE	406.3		
B MARKER	420.0		
B EQUIVALENT			
B SALT	428.0		
B ANHYDRITE			
A2 CARBONATE	500.0		
A2 SALT	546.1		
SILURIAN: A2 ANHYDRITE	559.0		
A1 CARBONATE	561.9		
A1 SALT			
A1 ANHYDRITE	597.2		
GUELPH	605.7		
ERAMOSA			
GOAT ISLAND	610.0		
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Lambton TWP Dawn BLK TRAC LOT 32 CON I
WELL NAME Union Dawn 254 Dawn 32-I PERMIT 6431 INIT CLASS NGS
OPERATOR Union Gas Limited TARGET SAL CUR STATUS NGS

DRILLING DATA
CONTRACTOR James Newport
RIG TYPE CAB
CABLE TOP 1.4
BOT 585.0
ROTRY TOP
BOT
DRLG FLD
DEPTHS
KB ELEV 192.2
LOGGER 583.1
DRILLER 585.0
DEEP END
PLUG BK

DATES
PERMIT 1984-07-17
SPUD 1984-07-20
COMPTD 1984-09-10
OFFCNF 85-09-10
WRKOVR
ABNDND

COORDINATES
NORTH m
SOUTH 244.1 m
EAST m
WEST 152.8 m
LAT 42-45-03
LONG 82-13-35

SAMPLES
TOP 25.0
BOT 585.0
TRAY 9861
9862

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
489.0 – 491.0	Show	
520.0 – 535.0	Show	
535.0 – 583.1		4895

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	71.5	26.1	SHO	
273	60.3	167.0	SHO	167.0
219	35.7	393.7	CEM	
178	29.8	498.6	CEM	

COMPLETION DATA
GAS 10 ^{3}m^3/d
OIL m^3/d
SIP 4895 kPa
FORM Guelph
INTRVL 520.0-583.1 m
m
m
PERF [ ] OPEN HOLE [X]

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 581.0	GRNL	Computalog
496.7 – 580.5	DENL	"
4.0 – 356.7	SONL	"

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
25.0 –		FRE
194.0 – 197.0	60.0	SUL

CORING RECORD

INTERVAL	LOCATION	NO	ANAL

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.4		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT	26.3		
DEVONIAN: HAMILTON	86.7		
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	166.5		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS	197.8		
DEVONIAN: AMHERSTBURG	273.0		
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC	313.4		
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS			
SILURIAN: G SHALE	375.2		
SILURIAN: F SHALE	382.0		
SILURIAN: F SALT			
SILURIAN: E CARBONATE	414.8		
SILURIAN: D SALT/EQUIVALENT	446.4		
SILURIAN: C SHALE	448.5		
SILURIAN: B MARKER	466.0		
SILURIAN: B EQUIVALENT			
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE	480.0		
SILURIAN: A2 CARBONATE	483.8		
SILURIAN: A2 SALT			
SILURIAN: A2 ANHYDRITE	504.8		
SILURIAN: A1 CARBONATE			
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH	507.0		
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/WARTON			
SILURIAN: DECEW			
SILURIAN: ROCHESTER			
SILURIAN: IRONDEQUOIT			
SILURIAN: REYNALES/FOSSIL HILL			
SILURIAN: THOROLD			
SILURIAN: GRIMSBY			
SILURIAN: CABOT HEAD			
SILURIAN: MANITOULIN			
SILURIAN: WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
ORDOVICIAN: BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Lambton TWP Dawn BLK TRAC LOT 32 CON I
WELL NAME Union Dawn 253 Dawn 32-I PERMIT 6430 INIT CLASS NGS
OPERATOR Union Gas Limited TARGET SAL CUR STATUS NCS

DRILLING DATA
CONTRACTOR James Newport
RIG TYPE CAB
CABLE TOP 1.2
BOT 584.0
ROTRY TOP
BOT
DRLG FLD Water
DEPTHS
KB ELEV
LOGGER 581.5
DRILLER 584.0
DEEP END
PLUG BK

DATES
PERMIT 1984-07-17
SPUD 1984-08-01
COMPTD 1984-09-20
OFFCNF 1985-09-20
WRKOVR
ABNDND

COORDINATES
NORTH m
SOUTH 209.9 m
EAST m
WEST 304.2 m
LAT 42-45-04
LONG 82-13-43

SAMPLES
TOP 0
BOT 584.0
TRAY 8999
9000

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
480.0 – 483.0		
527.0 – 581.5		5102

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	71.4	27.3	SHO	
273	60.3	170.5	SHO	170.5
219	35.7	393.0	CEM	
178	29.8	504.5	CEM	

COMPLETION DATA
GAS 10 ^{3}m^3/d
OIL m^3/d
SIP 5102 kPa
FORM Guelph
INTRVL 527.0-581.5 m
m
m
PERF [ ] OPEN HOLE [X]

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY
4.5 – 380.0	SONL	Computalog
0 – 579.4	GRNL	"
504.0 – 581.2	DENL	"

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
24.0 –		FRE
210.0 – 213.0	55.0	SUL

CORING RECORD

INTERVAL	LOCATION	NO	ANAL

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.2		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT	27.4		
DEVONIAN: HAMILTON	89.0		
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	169.5		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS	203.6		
DEVONIAN: AMHERSTBURG	272.6		
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC	293.7		
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS	339.8		
SILURIAN: G SHALE	374.5		
SILURIAN: F SHALE	380.8		
SILURIAN: F SALT			
SILURIAN: E CARBONATE	407.1		
SILURIAN: D SALT/EQUIVALENT	468.2		
SILURIAN: C SHALE	445.4		
SILURIAN: B MARKER	461.6		
SILURIAN: B EQUIVALENT	468.2		
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE			
SILURIAN: A2 CARBONATE	477.3		
SILURIAN: A2 SALT			
SILURIAN: A2 ANHYDRITE			
SILURIAN: A1 CARBONATE			
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH	503.2		
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/WARTON			
SILURIAN: DECEW			
SILURIAN: ROCHESTER			
SILURIAN: IRONDEQUOIT			
SILURIAN: REYNALES/FOSSIL HILL			
SILURIAN: THOROLD			
SILURIAN: GRIMSBY			
SILURIAN: CABOT HEAD			
SILURIAN: MANITOULIN			
SILURIAN: WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
ORDOVICIAN: BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Lambton TWP Dawn BLK TRAC 3 LOT 32 CON III
WELL NAME P-R & Assoc. 1 Dawn 32-III PERMIT 6567 INIT CLASS NPW
OPERATOR Proto Resources and Associates TARGET SAI CUR STATUS DH-Abd

DRILLING DATA
CONTRACTOR Lorne T. Newport
RIG TYPE CAB DEPTHS
CABLE TOP 0.8 KB ELEV 196.4
BOT 646.8 LOGGER
ROTRY TOP DRILLER 646.8
BOT DEEP END
DRLG FLD PLUG BK

DATES
PERMIT 1984-08-01
SPUD 1984-08-21
COMPTD 1984-11-06
OFFCNF 1985-11-06
WRKOVR
ABNDND 1984-11-19

COORDINATES
NORTH 355.6 m
SOUTH m
EAST m
WEST 466.3 m
LAT 42-44-58
LONG 82-11-48

SAMPLES
TOP 21.0
BOT 646.8
TRAY 876

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
615.6 – 617.2	Show	

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	59.4	20.7	SHO	20.7
219	35.7	123.4	SHO	123.4
178	34.2	339.9	CEM	243.8

COMPLETION DATA
GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF OPEN HOLE

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
19.8 –	10.7	FRE
131.1 –	45.7	BRA

CORING RECORD

INTERVAL	LOCATION	NO	Abnd

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.8		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	52.0		
	MARCELLUS			
	DUNDEE	122.0		
	COLUMBUS			
	LUCAS	149.0		
	AMHERSTBURG	217.2		
	SYLVANIA			
	BOIS BLANC	241.1		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	286.0		
	G SHALE	330.1		
	F SHALE	338.0		
	F SALT			
	E CARBONATE	369.1		
	D SALT/EQUIVALENT			
	C SHALE	408.0		
	B MARKER	424.0		
	B EQUIVALENT			
	B SALT	428.2		
	B ANHYDRITE			
	A2 CARBONATE	506.3		
	A2 SALT	548.2		
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	570.3		
	A1 SALT			
	A1 ANHYDRITE	606.1		
	GUELPH	613.9		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	641.6		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY

CTY Lambton TWP Enniskillen BLK TRAC 6 LOT 12 CON VIII
WELL NAME Ram #75 Enniskillen 12-VIII PERMIT 6459 INIT CLASS NPW
OPERATOR Ram Petroleums Limited TARGET SAI CUR STATUS DH-Abd

DRILLING DATA
CONTRACTOR Rawlings Drilling Co. Ltd.
RIG TYPE CAB DEPTHS
CABLE TOP 1.2 KB ELEV 200.7
BOT 693.0 LOGGER 693.4
ROTRY TOP DRILLER 693.0
BOT DEEP END
DRLG FLD Brine PLUG BK

DATES
PERMIT 1984-04-24
SPUD 1984-05-11
COMPTD 1984-06-16
OFFCNF 1985-06-16
WRKOVR
ABNDND 1984-06-22

COORDINATES
NORTH m
SOUTH 627.7 m
EAST m
WEST 314.6 m
LAT 42-51-07
LONG 82-09-05

SAMPLES
TOP 24.0
BOT 693.1
TRAY 6502
6503

INITIAL GAS RECORD

INTERVAL	FLOW	SIP

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
274	60.3	24.0	SHO	24.0
220	41.7	151.5	SHO	142.6
178	29.8	353.3	CEM	278.1

COMPLETION DATA
GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF OPEN HOLE

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY
11.0 – 688.4	CNFD	Schlumberger

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
148.0 –	45.7	SUL

CORING RECORD

INTERVAL	LOCATION	NO	Abnd

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	25.3		
	HAMILTON	35.4		
	MARCELLUS			
	DUNDEE	114.5		
	COLUMBUS			
	LUCAS	139.2		
	AMHERSTBURG	220.3		
	SYLVANIA			
	BOIS BLANC	250.4		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	288.5		
	G SHALE	340.2		
	F SHALE	346.4		
	F SALT	388.5		
	E CARBONATE	379.3		
	D SALT/EQUIVALENT	430.7		
	C SHALE	442.6		
	B MARKER	462.0		
	B EQUIVALENT			
	B SALT	469.0		
	B ANHYDRITE			
	A2 CARBONATE	549.8		
	A2 SALT	592.5		
SILURIAN	A2 ANHYDRITE	614.2		
	A1 CARBONATE	616.8		
	A1 SALT			
	A1 ANHYDRITE	656.2		
	GUELPH	661.7		
	ERAMOSA			
	GOAT ISLAND	665.7		
	GASPORT/WIARTON	673.7		
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY

CTY Lambton TWP Enniskillen BLK TRAC 4 LOT 17 CON X
WELL NAME Jacques #4 Enniskillen 4-17-X PERMIT 6408 INIT CLASS BD
OPERATOR Lambton Area Industries Ltd. TARGET DEV CUR STATUS BD

DRILLING DATA
CONTRACTOR Wellington Newport
RIG TYPE CAB DEPTHS
CABLE TOP 1.0 KB ELEV 203.4
BOT 203.0 LOGGER
ROTRY TOP DRILLER 203.0
BOT DEEP END
DRLG FLD PLUG BK

DATES
PERMIT 1983-11-30
SPUD 1984-01-05
COMPTD 1984-02-03
OFFCNF 1985-02-03
WRKOVR
ABNDND

COORDINATES
NORTH m
SOUTH 606.6 m
EAST m
WEST 90.8 m
LAT 42-52-32
LONG 82-06-37

SAMPLES
TOP 9.1
BOT 143.3
TRAY 1940

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178		24.5	SHO	
140		105.0	CEM	

COMPLETION DATA
GAS $10^3 m^3/d$
OIL 3 m^3/d
SIP kPa
FORM
INTRVL Top 136.4 m
Btm 143.0 m
Lucas m
PERF ☐ OPEN HOLE ☒

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
136.4 – 143.0	3	
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		
–		

REMARKS
This well was originally to be drilled to 140 meters and classed as an oil producer. It only produced 3 m^3 oil so the well was selected for deepening for brine disposal.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
145.5 –	91.0	SUL
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.0		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT			
DEVONIAN: HAMILTON	19.2		
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	92.0		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS	1250.2		
DEVONIAN: AMHERSTBURG			
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC			
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS			
SILURIAN: G SHALE			
SILURIAN: F SHALE			
SILURIAN: F SALT			
SILURIAN: E CARBONATE			
SILURIAN: D SALT/EQUIVALENT			
SILURIAN: C SHALE			
SILURIAN: B MARKER			
SILURIAN: B EQUIVALENT			
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE			
SILURIAN: A2 CARBONATE			
SILURIAN: A2 SALT			
SILURIAN: A2 ANHYDRITE			
SILURIAN: A1 CARBONATE			
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH			
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/WIARTON			
SILURIAN: DECEW			
SILURIAN: ROCHESTER			
SILURIAN: IRONDEQUOIT			
SILURIAN: REYNALES/FOSSIL HILL			
SILURIAN: THOROLD			
SILURIAN: GRIMSBY			
SILURIAN: CABOT HEAD			
SILURIAN: MANITOULIN			
SILURIAN: WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
ORDOVICIAN: BLUE MOUNTAIN GEORG BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Lambton TWP Enniskillen BLK TRAC 7 LOT 30 CON IX
WELL NAME Francisco #1 Enniskillen 7-30-IX PERMIT 6414 INIT CLASS NPW
OPERATOR Francisco Petroleum Enterprises Inc. TARGET SAL CUR STATUS OP

DRILLING DATA
CONTRACTOR Rawlings Drilling Co. Ltd.
RIG TYPE CAB DEPTHS
CABLE TOP 1.0 KB ELEV 210.1
BOT 601.0 LOGGER 600.5
ROTRY TOP DRILLER 60
BOT DEEP END
DRLG FLD Oil PLUG BK 600.5

DATES
PERMIT 1983-12-28
SPUD 1984-01-19
COMPTD 1984-03-08
OFFCNF 1985-03-08
WRKOVR
ABNDND

COORDINATES
NORTH 77.4 m
SOUTH m
EAST m
WEST 313.9 m
LAT 42-51-20
LONG 82-00-57

SAMPLES
TOP 18.0
BOT 601.1
TRAY 8075

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	60.3	18.6	SHO	
219	35.7	116.9	SHO	
178	29.8	353.5	CEM	
140	20.8	589.9	CEM	

COMPLETION DATA
GAS $10^3 m^3/d$
OIL 7.9 m^3/d
SIP kPa
FORM GUELPH
INTRVL 589.9 – 600.5 m
m
m
PERF ☐ OPEN HOLE ☒

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
587.0 – 600.5	7.9	
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
1.0 – 598.0	GRNL	Computalog
589.5 – 600.0	DENL	"
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
18.3 –		FRE
149.4 –	61.0	SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.0		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT	17.5		
DEVONIAN: HAMILTON	35.9		
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	115.4		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS	139.0		
DEVONIAN: AMHERSTBURG	215.2		
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC	257.8		
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS	291.2		
SILURIAN: G SHALE	335.5		
SILURIAN: F SHALE	342.2		
SILURIAN: F SALT			
SILURIAN: E CARBONATE	374.3		
SILURIAN: D SALT/EQUIVALENT	408.0		
SILURIAN: C SHALE	419.7		
SILURIAN: B MARKER	433.8		
SILURIAN: B EQUIVALENT			
SILURIAN: B SALT	440.6		
SILURIAN: B ANHYDRITE			
SILURIAN: A2 CARBONATE	511.2		
SILURIAN: A2 SALT	552.2		
SILURIAN: A2 ANHYDRITE	558.0		
SILURIAN: A1 CARBONATE	559.0		
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH	586.0		
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/WIARTON			
SILURIAN: DECEW			
SILURIAN: ROCHESTER			
SILURIAN: IRONDEQUOIT			
SILURIAN: REYNALES/FOSSIL HILL			
SILURIAN: THOROLD			
SILURIAN: GRIMSBY			
SILURIAN: CABOT HEAD			
SILURIAN: MANITOULIN			
SILURIAN: WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
ORDOVICIAN: BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Lambton TWP Euphemia BLK TRAC 8 LOT 18 CON IV

WELL NAME PPC #1 Euphemia 8-18-IV PERMIT 6518 INIT CLASS NPW

OPERATOR Paladin Petroleum Corp. TARGET SAL CUR STATUS OP - GS

DRILLING DATA

CONTRACTOR Rawlings Drilling Co. Ltd.
RIG TYPE CAB
CABLE TOP 1.3
BOT 502.0
ROTRY TOP
BOT
DRLG FLD Brine
DEPTHS
KB ELEV 198.6
LOGGER 498.0
DRILLER 502.0
DEEP END
PLUG BK

DATES

PERMIT 1984-05-15
SPUD 1984-05-22
COMPTD 1984-06-26
OFFCNF 1985-06-26
WRKOVR
ABNDND

COORDINATES

NORTH 181.1 m
SOUTH m
EAST 213.1 m
WEST m
LAT 42-39-48
LONG 81-57-37

SAMPLES

TOP 15.0
BOT 499.3
TRAY 232

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
430.6 - 432.8	SHOW	
450.2 - 451.7	0.63	
457.2 - 459.0	1.58	

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	59.0	21.7	SHO	
203	36.0	97.5	SHO	97.5
178	30.0	340.4	CEM	227.0
114	14.0	497.0	CEM	
60	6.7	490.4	HAN	

COMPLETION DATA

GAS $10^3 m^3/d$
OIL 3.0 m^3/d
SIP kPa
FORM A1 Carb
INTRVL 465.0 - 467.9 m
m
m
PERF X OPEN HOLE
REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
459.0 -	SHO	
460.5 -	1.8	

LOGGING RECORD

INTERVAL	TYPE	COMPANY
319.5 - 493.2	LATL	Schlumberger
318.0 - 495.0	CNFD	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
16.0 -		FRE
131.0 -		SUL
478.8 -		SAL

CORING RECORD

INTERVAL	LOCATION	NO	dia

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.3		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON	27.0		
MARCELLUS			
DUNDEE	100.9		
COLUMBUS	127.2		
LUCAS	137.2		
AMHERSTBURG	199.0		
SYLVANIA			
BOIS BLANC	238.0		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	288.1		
G SHALE	330.0		
F SHALE	336.2		
F SALT			
E CARBONATE	363.2		
D SALT/EQUIVALENT	399.0		
C SHALE	400.3		
B MARKER	411.0		
B EQUIVALENT	417.3		
B SALT			
B ANHYDRITE	427.7		
A2 CARBONATE	430.7		
A2 SALT			
A2 ANHYDRITE	448.4		
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH	449.5		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL MILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Lambton TWP Moore BLK TRAC 1 LOT 5 CON IV

WELL NAME Ram #80 Moore 1-5 IV PERMIT 6601 INIT CLASS NPW

OPERATOR Ram Petroleums Limited TARGET ORD CUR STATUS OS-SUSP

DRILLING DATA

CONTRACTOR Underwater Gas Devel. Ltd.
RIG TYPE ROT
CABLE TOP
BOT
ROTRY TOP 1.8
BOT 1262.0
DRLG FLD KCL BRINE
DEPTHS
KB ELEV 193.3
LOGGER 1264.3
DRILLER 1262.0
DEEP END
PLUG BK 1208.8

DATES

PERMIT 1984-09-21
SPUD 1984-09-25
COMPTD 1984-10-02
OFFCNF 1985-10-02
WRKOVR
ABNDND

COORDINATES

NORTH m
SOUTH 130.5 m
EAST m
WEST 178.0 m
LAT 42-48-37
LONG 82-16-15

SAMPLES

TOP 70.0
BOT 1262.0
TRAY 9880
9881

INITIAL GAS RECORD

INTERVAL	FLOW	SIP

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.6	66.2	CEM	
178	29.8	511.7	CEM	
114	14.1	1258.8	CEM	

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF X OPEN HOLE
REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
1150.0 - 1153.0	Show	
1221.0 - 1224.0	Show	
1230.0 - 1233.0	Show	

LOGGING RECORD

INTERVAL	TYPE	COMPANY
723.0 - 1264.3	FRID	Schlumberger
723.0 - 1264.0	DIPM	"
511.0 - 1263.0	DLIM	"
504.0 - 1255.0	NGRS	"
11.0 - 1260.5	SONL	"
504.0 - 1255.2	CNFD	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
248		SUL
622		BRI
867		BRI

CORING RECORD

INTERVAL	LOCATION	NO	dia

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.8		
DEVONIAN: PORT LAMBTON			
KETTLE POINT	34.3		
HAMILTON	71.2		
MARCELLUS			
DUNDEE	124.0		
COLUMBUS			
LUCAS	247.0		
AMHERSTBURG	352.0		
SYLVANIA			
BOIS BLANC	411.3		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	437.0		
G SHALE	496.0		
F SHALE	502.0		
F SALT			
E CARBONATE	529.0		
D SALT/EQUIVALENT	563.2		
C SHALE	566.6		
B MARKER	579.3		
B EQUIVALENT	584.0		
B SALT			
B ANHYDRITE	596.7		
A2 CARBONATE	599.4		
A2 SALT	617.7		
A2 ANHYDRITE	647.8		
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE	684.5		
GUELPH	689.5		
ERAMOSA			
GOAT ISLAND	695.5		
GASPORT/WIARTON	703.0		
DECEW			
ROCHESTER	719.2		
IRONDEQUOIT			
REYNALES/FOSSIL MILL	732.5		
THOROLD			
GRIMSBY			
CABOT HEAD	734.7		
MANITOULIN	754.3		
WHIRLPOOL			
ORDOVICIAN: QUEENSTON	768.7		
BLUE MOUNTAIN - GEORG BAY	858.4		
COLLINGWOOD			
COBOURG	953.5		
VERULAM	1001.6		
KIRKFIELD	1046.5		
COBOCONK	1099.4		
GULL RIVER	1135.3		
SHADOW LAKE	1247.0		
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Lambton TWP Moore BLK TRAC 7 LOT 18 CON VII
WELL NAME Tex. Pim.-Col. #50 Moore 7-18-VII PERMIT 6452 INIT CLASS NGS
OPERATOR Tecumseh Gas Storage Ltd. TARGET SAL CUR STATUS NGS

DRILLING DATA

CONTRACTOR Charles Shaw Drilling Ltd.
RIG TYPE CAB DEPTHS
CABLE TOP 1.8 KB ELEV 195.1
BOT 700.0 LOGGER 698.8
ROTRY TOP DRILLER 700.0
BOT DEEP END
DRLG FLD DRY PLUG BK

DATES

PERMIT 1984-03-08
SPUD 1984-03-07
COMPTD 1984-04-25
OFFCNF 1985-04-25
WRKOVR
ABNDND

COORDINATES

NORTH 47.6 m
SOUTH m
EAST 209.5 m
WEST m
LAT 42-51-17
LONG 82-22-09

SAMPLES

TOP 40.0
BOT 696.0
TRAY 12-13

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
649.0 –	SHOW	
658.0 – 661.0	.83	
669.0 – 698.8		1724

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	81.1	42.6	SHO	
273	60.3	154.5	SHO	154.5
219	35.7	397.9	CEM	
178	34.2	666.9	CEM	

COMPLETION DATA

GAS $10^3m^3/d$
OIL m^3/d
SIP 1724 kPa
FORM GUELPH
INTRVL 667.5 – 698.8 m

PERF OPEN HOLE X

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0 – 696.5	GRNL	Computalog
666.0 – 698.0	DENL	Computalog

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
41.0 –		FRE
188.0 –	55.0	SUL

CORING RECORD

INTERVAL	LOCATION	NO	cm

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.8		
DEVONIAN: PORT LAMBTON			
KETTLE POINT	42.0		
HAMILTON	74.5		
MARCELLUS			
DUNDEE	152.6		
COLUMBUS			
LUCAS	180.7		
AMHERSTBURG	267.6		
SYLVANIA			
BOIS BLANC	317.6		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	336.5		
G SHALE	381.5		
F SHALE	388.2		
F SALT			
E CARBONATE	416.7		
D SALT/EQUIVALENT	476.0		
C SHALE	487.1		
B MARKER	499.2		
B EQUIVALENT			
B SALT	506.6		
B ANHYDRITE			
A2 CARBONATE	588.0		
A2 SALT	635.4		
A2 ANHYDRITE			
A1 CARBONATE	657.5		
A1 SALT			
A1 ANHYDRITE	664.5		
GUELPH	667.6		
ERAMOSA			
GOAT ISLAND			
GASPORT/MARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Lambton TWP Moore BLK TRAC 2 LOT 19 CON X
WELL NAME Tec Corunna #6 Moore 2-19-X PERMIT 6448 INIT CLASS NGS
OPERATOR Tecumseh Gas Storage Ltd. TARGET SAL CUR STATUS NGS

DRILLING DATA

CONTRACTOR Charles Shaw Drilling Ltd.
RIG TYPE CAB DEPTHS
CABLE TOP 1.3 KB ELEV 198.2
BOT 716.5 LOGGER 714.5
ROTRY TOP DRILLER 716.5
WRKOVR
BOT DEEP END
ABNDND
DRLG FLD Dry PLUG BK

DATES

PERMIT 1984-03-08
SPUD 1984-05-03
COMPTD 1984-06-27
OFFCNF 1985-06-27
WRKOVR
ABNDND

COORDINATES

NORTH m
SOUTH 95.5 m
EAST 65.5 m
WEST m
LAT 42-53-08
LONG 82-22-37

SAMPLES

TOP 43.0
BOT 716.5
TRAY
6504-6505

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
661.7 –		2241
684.0 –		2620
707.0 –		2620
711.0 –	714.5	2620

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
346	71.4	43.1	SHO	
273	60.2	156.0	SHO	156.0
219	35.7	400.3	CEM	
178	34.2	653.0	CEM	

COMPLETION DATA

GAS $10^3m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL

PERF OPEN HOLE

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY
2.5 – 712.5	GRNL	Computalog
655.0 – 714.2	DENL	Computalog

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
41.0 –	15.0	FRE
192.0 –	45.0	SUL

CORING RECORD

INTERVAL	LOCATION	NO	cm

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.3		
DEVONIAN: PORT LAMBTON			
KETTLE POINT	42.5		
HAMILTON	70.0		
MARCELLUS			
DUNDEE	154.2		
COLUMBUS			
LUCAS	189.8		
AMHERSTBURG	277.0		
SYLVANIA			
BOIS BLANC	308.7		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	332.0		
G SHALE	388.3		
F SHALE	395.5		
F SALT	417.6		
E CARBONATE	472.6		
D SALT/EQUIVALENT	526.6		
C SHALE	537.7		
B MARKER	549.6		
B EQUIVALENT			
B SALT	555.[illegible]		
B ANHYDRITE			
A2 CARBONATE	622.5		
A2 SALT			
A2 ANHYDRITE			
A1 CARBONATE	649.2		
A1 SALT			
A1 ANHYDRITE	652.5		
GUELPH	660.4		
ERAMOSA			
GOAT ISLAND			
GASPORT/MARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Lambton TWP Moore BLK TRAC 2 LOT 22 CON II
WELL NAME Oil Finders Moore 2-22-II PERMIT 6549 INIT CLASS NPW
OPERATOR Oil Finders Group TARGET SAL CUR STATUS GP-OS

DRILLING DATA
CONTRACTOR Charles Shaw
RIG TYPE Cable
CABLE TOP 1.2 BOT 730.5
ROTRY TOP BOT
DRLG FLD
DEPTHS
KB ELEV 189.7
LOGGER 730.5
DRILLER 729.8
DEEP END
PLUG BK

DATES
PERMIT 1984-07-05
SPUD 1984-07-05
COMPTD 1984-08-22
OFFCNF 1985-08-22
WRKOVR
ABNDND

COORDINATES
NORTH m
SOUTH 107 m
EAST 107 m
WEST m
LAT 42-47-18
LONG 82-24-10

SAMPLES
TOP 44.0
BOT 729.7
TRAY 9661
9662

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
677.0 – 680.0	Show	3585
682.0 –	4.0	
710.5 –	8.9	
719.0 –	82.2	6826
721.0 – 723.0	28.3	
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	60.3	45.6	SHO	
219	35.7	211.3	SHO	211.3
178	34.2	428.2	CEM	
114		730.5	CEM	
60		724.0		

COMPLETION DATA
GAS 28.3 $10^3m^3/d$
OIL 0.2 m^3/d
SIP 6825 kPa
FORM Guelph
INTRVL 721.3-723.3 m
m
m
PERF OPEN HOLE

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
717.5 –	TRACE	
722.5 –	.04	
727.5 –	.07	
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
11.0 – 728.4	GRNL	Computalog
677.3 – 730.2	DENL	
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
44.0 –		FRE
240.0 –	50.0	SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	REC
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.2		
PORT LAMBTON	44.0		
KETTLE POINT	81.5		
HAMILTON	135.0		
MARCELLUS			
DUNDEE	209.0		
COLUMBUS			
LUCAS	236.7		
AMHERSTBURG	311.8		
SYLVANIA			
BOIS BLANC	355.4		
SPRINGVALE			
ORISKANY			
BASS ISLANDS	380.7		
G SHALE	414.7		
F SHALE	421.3		
F SALT			
E CARBONATE	448.7		
D SALT/EQUIVALENT	491.4		
C SHALE	499.0		
B MARKER	513.8		
B EQUIVALENT			
B SALT	525.0		
B ANHYDRITE			
A2 CARBONATE	612.4		
A2 SALT	656.3		
A2 ANHYDRITE			
A1 CARBONATE	678.0		
A1 SALT			
A1 ANHYDRITE	709.6		
GUELPH	711.3		
ERAMOSA			
GOAT ISLAND	723.8		
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Lambton TWP Moore BLK TRAC 7 LOT 22 CON V
WELL NAME Dow et al Moore 7-22-V PERMIT 6415 INIT CLASS NPW
OPERATOR Dow Chemical Canada Inc. TARGET SAL CUR STATUS GS-ABD

DRILLING DATA
CONTRACTOR Charles Shaw Drilling
RIG TYPE CAB
CABLE TOP 1.7 BOT 737.0
ROTRY TOP BOT
DRLG FLD Form H20
DEPTHS
KB ELEV 191.0
LOGGER 736.0
DRILLER 737.0
DEEP END
PLUG BK

DATES
PERMIT 1983-12-20
SPUD 1984-01-03
COMPTD 1984-02-08
OFFCNF 1985-02-08
WRKOVR
ABNDND 1984-02-19

COORDINATES
NORTH 259.1 m
SOUTH m
EAST 152.4 m
WEST m
LAT 42-48-59
LONG 82-24-03

SAMPLES
TOP 42.0
BOT 737.0
TRAY
8696-8697

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
35.0 –		
730.0 –	SHOW	
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	60.2	42.6	SHO	42.6
219	35.7	220.7	SHO	220.7
178	24.2	433.9	CEM	313.9

COMPLETION DATA
GAS $10^3m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
PERF OPEN HOLE

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0 – 733.8	GRNL	Computalog
–		
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
42.0 –	15.0	FRE
251.0 –	40.0	LUC
736.0 –	553.0	SAL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	REC
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.2		
PORT LAMBTON	43.1		
KETTLE POINT	94.6		
HAMILTON	142.5		
MARCELLUS			
DUNDEE	217.5		
COLUMBUS			
LUCAS	242.5		
AMHERSTBURG	324.1		
SYLVANIA			
BOIS BLANC	368.0		
SPRINGVALE			
ORISKANY			
BASS ISLANDS	396.0		
G SHALE	430.2		
F SHALE	436.3		
F SALT			
E CARBONATE	463.7		
D SALT/EQUIVALENT	508.0		
C SHALE	516.4		
B MARKER	537.4		
B EQUIVALENT			
B SALT	545.0		
B ANHYDRITE			
A2 CARBONATE	628.2		
A2 SALT	672.0		
A2 ANHYDRITE			
A1 CARBONATE	695.3		
A1 SALT			
A1 ANHYDRITE	725.4		
QUELPH	729.3		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Lambton TWP Moore BLK TRAC LOT 23 CON XI
WELL NAME Dow 81 Moore 23-XI PERMIT 6543 INIT CLASS SM
OPERATOR Dow Chemical Canada Inc. TARGET SAL CUR STATUS SM

DRILLING DATA		DATES		COORDINATES		SAMPLES	
CONTRACTOR	B & S Rotary Drilling Ltd.	PERMIT	1984-07-04	NORTH m		TOP	95.0
RIG TYPE	Rotary	SPUD	1984-07-30	SOUTH	116.1 m	BOT	749.0
CABLE TOP		COMPTD	1984-08-10	EAST	81.9 m	TRAY	7349
BOT		OFFCNF	1985-08-10	WEST m			
ROTRY TOP	3.0	WRKOVR		LAT	42-53-54		
BOT	749.0	ABNDND		LONG	82-24-08		
DRLG FLD	Brine						

DEPTHS		LOGGER	748.7	DRILLER	749.0	DEEP END		PLUG BK	

INITIAL GAS RECORD

INTERVAL		FLOW	SIP
–			
–			
–			
–			
–			
–			

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340.1	81.1	92.0	CEM	
245	53.0	595.0	CEM	
178	29.7	737.0	HAN	
114	14.0	746.0	HAN	

COMPLETION DATA

GAS	$10^3 m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☒

INITIAL OIL RECORD

INTERVAL		FLOW	DENSITY
–			
–			
–			
–			
–			
–			

LOGGING RECORD

INTERVAL		TYPE	COMPANY
–	746.3	GRNL	COM
–			
–			
–			
–			
–			

REMARKS

INITIAL WATER RECORD

INTERVAL		STAT LEV	TYPE
–			
–			
–			
–			
–			
–			

CORING RECORD

INTERVAL		LOCATION	NO	MAL
–				
–				
–				
–				
–				
–				

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	3.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	42.2		
	HAMILTON	92.7		
	MARCELLUS			
	DUNDEE	178.2		
	COLUMBUS			
	LUCAS	205.2		
	AMHERSTBURG	300.4		
	SYLVANIA			
	BOIS BLANC	350.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	357.4		
	G SHALE	414.4		
	F SHALE	421.5		
	F SALT	477.4		
	E CARBONATE	525.0		
	D SALT/EQUIVALENT	551.2/548.0		
	C SHALE	563.7		
	B MARKER	575.8		
	B EQUIVALENT			
	B SALT	582.0		
	B ANHYDRITE			
	A2 CARBONATE	673.2		
	A2 SALT	716.7		

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY

CTY Lambton TWP Moore BLK TRAC LOT 25 CON XI
WELL NAME Dow HC #10 Moore 25-XI PERMIT 6620 INIT CLASS SM
OPERATOR Dow Chemical Canada Inc. TARGET SAL CUR STATUS SM

DRILLING DATA		DATES		COORDINATES		SAMPLES	
CONTRACTOR	B & S Rotary Drilling Ltd.	PERMIT	1984-10-25	NORTH m		TOP	92.0
RIG TYPE	ROT	SPUD	1984-12-10	SOUTH	611.4 m	BOT	664.0
CABLE TOP		COMPTD	1984-12-27	EAST m		TRAY	923
BOT		OFFCNF	1985-12-27	WEST	454.8 m		
ROTRY TOP	0.4	WRKOVR		LAT			
BOT	665.5	ABNDND		LONG			
DRLG FLD	Salt mud						

DEPTHS		LOGGER	666.5	DRILLER	665.5	DEEP END		PLUG BK	

INITIAL GAS RECORD

INTERVAL		FLOW	SIP
–			
–			
–			
–			
–			
–			

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
508	158.4	92.0	CEM	
339	90.7	572.0	CEM	
219	35.7	660.0	HAN	
139	20.8	663.0	HAN	

COMPLETION DATA

GAS	$10^3 m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL		FLOW	DENSITY
–			
–			
–			
–			
–			
–			

LOGGING RECORD

INTERVAL		TYPE	COMPANY
4.2	608.7	GRNL	Computalog
76.4	610.7	CALP	"
50.0	579.0	SONL	"
–			
–			
–			

REMARKS

INITIAL WATER RECORD

INTERVAL		STAT LEV	TYPE
–			
–			
–			
–			
–			
–			

CORING RECORD

INTERVAL		LOCATION	NO	MAL
–				
–				
–				
–				
–				
–				

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.4		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	46.6		
	HAMILTON	105.1		
	MARCELLUS			
	DUNDEE	190.0		
	COLUMBUS			
	LUCAS	213.4		
	AMHERSTBURG	311.3		
	SYLVANIA			
	BOIS BLANC	355.2		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	376.4		
	G SHALE	416.7		
	F SHALE	423.4		
	F SALT			
	E CARBONATE	448.5		
	D SALT/EQUIVALENT	475.6		
	C SHALE	559.6		
	B MARKER	574.2		
	B EQUIVALENT			
	B SALT	582.2		
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY

CTY Lambton TWP Plympton BLK TRAC 2-7 LOT 7 CON II

WELL NAME Springs #1 Plympton 2-7-7-II PERMIT 6534 INIT CLASS NPW

OPERATOR Springs Drilling Ltd. TARGET DEV CUR STATUS OS-ABD

DRILLING DATA

CONTRACTOR W.G. Water Wells Limited
RIG TYPE ROT
CABLE TOP
BOT
ROTRY TOP 1.0
BOT 176.7
DRLG FLD

DEPTHS
KB ELEV 211.4
LOGGER
DRILLER 176.7
DEEP END
PLUG BK 164.6

DATES

PERMIT 1984-06-28
SPUD 1984-07-04
COMPTD 1984-07-08
OFFCNF 1985-07-08
WRKOVR
ABNDND 1985-05-14

COORDINATES

NORTH 230.0 m
SOUTH m
EAST 63.0 m
WEST m
LAT 42-56-46
LONG 82-10-15

SAMPLES

TOP 70.9
BOT 177.7
TRAY 18

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	23.3	70.1	SHO	

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
153.3 – 165.5	SHOW	
–		
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–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
170.6 –	162.4	
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CORING RECORD

INTERVAL	LOCATION	NO	ANAL
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GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.0		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	132.2		
COLUMBUS			
LUCAS			
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
SILURIAN: A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Lambton TWP Plympton BLK TRAC 2 LOT 12 CON V

WELL NAME Milton Resource Plympton 2-12-V PERMIT 6550 INIT CLASS NPW

OPERATOR Milton Resources Limited TARGET SAL CUR STATUS DH-Abd

DRILLING DATA

CONTRACTOR Rawlings Drilling Co. Ltd.
RIG TYPE CAB
CABLE TOP 1.2
BOT 777.2
ROTRY TOP
BOT
DRLG FLD

DEPTHS
KB ELEV 206.6
LOGGER 775.8
DRILLER 777.2
DEEP END
PLUG BK

DATES

PERMIT 1984-07-05
SPUD 1984-07-16
COMPTD 1984-08-26
OFFCNF 1985-08-06
WRKOVR
ABNDND 1984-09-04

COORDINATES

NORTH m
SOUTH 147.0 m
EAST 193.0 m
WEST m
LAT 42-59-28
LONG 82-08-46

SAMPLES

TOP 34.0
BOT 779.4
TRAY 9667
9668

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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–		
–		
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–		
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	60.3	34.3	SHO	34.3
219	35.7	151.2	SHO	151.2
178	29.8	379.5	CEM	300.0

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 775.8	GRNL	Computalog
–		
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–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
170.7 –	61.0	SUL
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
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–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.2		
DEVONIAN: PORT LAMBTON			
KETTLE POINT	33.4		
HAMILTON	54.7		
MARCELLUS			
DUNDEE	147.0		
COLUMBUS			
LUCAS	176.0		
AMHERSTBURG	258.4		
SYLVANIA			
BOIS BLANC	316.0		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	325.6		
G SHALE	386.2		
F SHALE	392.7		
F SALT	420.4		
E CARBONATE	486.0		
D SALT/EQUIVALENT	512.4		
C SHALE	530.5		
B MARKER	547.2		
B EQUIVALENT			
B SALT	556.4		
B ANHYDRITE			
A2 CARBONATE	639.3		
A2 SALT	681.8		
SILURIAN: A2 ANHYDRITE	713.0		
A1 CARBONATE	714.6		
A1 SALT			
A1 ANHYDRITE	754.		
GUELPH	759.6		
ERAMOSA			
GOAT ISLAND	765.0		
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY: Lambton TWP: Plympton BLK: TRAC: 6 LOT: 19 CON: XIV
WELL NAME: Protero Plympton 6-19- XIV PERMIT: 6388 INIT CLASS: NPW
OPERATOR: Protero Petroleums Ltd. TARGET: CLI CUR STATUS: DH-ABD

DRILLING DATA
CONTRACTOR: James Newport Drilling
RIG TYPE: CAB
CABLE TOP: 1.7
BOT: 824.6
ROTRY TOP:
BOT:
DRLG FLD: DRY
DEPTHS
KB ELEV: 200.1
LOGGER: 824.6
DRILLER: 823.0
DEEP END:
PLUG BK:

DATES
PERMIT: 1983-11-04
SPUD: 1983-10-26
COMPTD: 1984-01-06
OFFCNF: 1985-01-06
WRKOVR:
ABNDND: 1984-01-12

COORDINATES
NORTH: 563.0 m
SOUTH: m
EAST: 107.3 m
WEST: m
LAT: 42-05-29
LONG: 82-05-40

SAMPLES
TOP: 26.0
BOT: 824.0
TRAY:
8686-8687

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	59.5	29.0	Shoe	29.0
219	35.7	181.1	Shoe	181.1
180	29.8	408.4	Cement	383.1

COMPLETION DATA
GAS: $10^3 m^3/d$
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
3.0 – 822.2	GRNL	Computalog
730.8 – 824.4	DNL	Computalog

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
25.9 –		Fresh
181.1 –	68.6	Sulphur
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	
–			
–			
–			
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GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.7		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT	24.4		
DEVONIAN: HAMILTON	43.2		
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	146.7		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS	181.6		
DEVONIAN: AMHERSTBURG			
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC	293.5		
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS	346.4		
SILURIAN: G SHALE	404.2		
SILURIAN: F SHALE	410.5		
SILURIAN: F SALT	439.7		
SILURIAN: E CARBONATE	511.0		
SILURIAN: D SALT/EQUIVALENT	534.0		
SILURIAN: C SHALE	552.6		
SILURIAN: B MARKER	562.8		
SILURIAN: B EQUIVALENT			
SILURIAN: B SALT	575.8		
SILURIAN: B ANHYDRITE			
SILURIAN: A2 CARBONATE	659.2		
SILURIAN: A2 SALT	702.2		
SILURIAN: A2 ANHYDRITE	734.3		
SILURIAN: A1 CARBONATE	736.0		
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE	775.6		
SILURIAN: GUELPH	781.4		
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND	787.0		
SILURIAN: GASPORT/WIARTON	798.2		
SILURIAN: DECEW			
SILURIAN: ROCHESTER	805.4		
SILURIAN: IRONDEQUOIT			
SILURIAN: REYNALES/FOSSIL HILL	815.2		
SILURIAN: THOROLD			
SILURIAN: GRIMSBY			
SILURIAN: CABOT HEAD	820.4		
SILURIAN: MANITOULIN			
SILURIAN: WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
ORDOVICIAN: BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY: Debra K. Parker

CTY: Lambton TWP: Sarnia BLK: TRAC: 1 – 3 LOT: 3 CON: VI
WELL NAME: Devran Sarnia 1-3-3-VI PERMIT: 6552 INIT CLASS: STR
OPERATOR: Devran Petroleum Ltd. TARGET: DEV CUR STATUS:

DRILLING DATA
CONTRACTOR: W.G. Water Wells Ltd.
RIG TYPE: ROT
CABLE TOP:
BOT:
ROTRY TOP: 1.3
BOT: 127.5
DRLG FLD: Brine
DEPTHS
KB ELEV: 187.5
LOGGER: 127.2
DRILLER: 127.5
DEEP END:
PLUG BK:

DATES
PERMIT: 1984-07-12
SPUD: 1984-07-09
COMPTD: 1984-07-12
OFFCNF: 1985-07-12
WRKOVR:
ABNDND:

COORDINATES
NORTH: m
SOUTH: 407.7 m
EAST: 272.5 m
WEST: m
LAT: 42-49-55
LONG: 82-15-24

SAMPLES
TOP: 32.0
BOT: 104.8
TRAY: 7982

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
42.0 – 46.7	SHOW	
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–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	25.3	39.8	SHO	

COMPLETION DATA
GAS: $10^3 m^3/d$
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
105.2 – 127.5		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
33.0 – 125.0	CNFD	Schlumberger
32.0 – 123.0	LATL	"
33.0 – 125.0	CBLK	"
7.5 – 119.0	SONL	"

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	
42.2 – 46.7			N
56.0 – 60.5			N
79.5 – 84.0			N
92.0 – 96.6			N
101.5 – 127.6			Y

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.3		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT			
DEVONIAN: HAMILTON	32.0		
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	105.0		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS			
DEVONIAN: AMHERSTBURG			
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC			
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS			
SILURIAN: G SHALE			
SILURIAN: F SHALE			
SILURIAN: F SALT			
SILURIAN: E CARBONATE			
SILURIAN: D SALT/EQUIVALENT			
SILURIAN: C SHALE			
SILURIAN: B MARKER			
SILURIAN: B EQUIVALENT			
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE			
SILURIAN: A2 CARBONATE			
SILURIAN: A2 SALT			
SILURIAN: A2 ANHYDRITE			
SILURIAN: A1 CARBONATE			
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH			
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/WIARTON			
SILURIAN: DECEW			
SILURIAN: ROCHESTER			
SILURIAN: IRONDEQUOIT			
SILURIAN: REYNALES/FOSSIL HILL			
SILURIAN: THOROLD			
SILURIAN: GRIMSBY			
SILURIAN: CABOT HEAD			
SILURIAN: MANITOULIN			
SILURIAN: WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
ORDOVICIAN: BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY:

CTY Lambton TWP Sarnia BLK TRAC 3-2 LOT 3 CON VI
WELL NAME Devran Sarnia 3-2-3-VI PERMIT 6429 INIT CLASS STR
OPERATOR Devran Petroleum Ltd. TARGET DEV CUR STATUS

DRILLING DATA

CONTRACTOR	W & G Waterwells Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	187.1
BOT		LOGGER	144.4
ROTRY TOP	1.3	DRILLER	144.4
BOT	144.4	DEEP END	
DRLG FLD	ON	PLUG BK	

DATES

PERMIT	1984-01-18
SPUD	1984-01-17
COMPTD	1984-01-19
OFFCNF	1985-01-19
WRKOVR	
ABNOND	

COORDINATES

NORTH		m
SOUTH	251.5	m
EAST	76.2	m
WEST		m
LAT	42-58-46	
LONG	82-15-14	

SAMPLES

TOP	41.0	
BOT	102.8	
TRAY	189	

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
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–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	25.3	41.0	CEM	

COMPLETION DATA

GAS	$10^3 m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m

PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
104.4 – 114.7		
120.2 – 129.4		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0 – 142.0	GRNL	Computalog
100.9 – 144.4	DENL	Computalog
32.0 – 139.0	LATL	Schlumberger
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
107.3 –		SUL
143.0 –	33.5	SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	Main
102.8 – 139.2	PRL	871	Y
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.3		
PORT LAMBTON			
KETTLE POINT			
HAMILTON	32.0		
MARCELLUS			
DUNDEE	104.0		
COLUMBUS			
LUCAS	137.0		
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Lambton TWP Sarnia BLK TRAC 1-3 LOT 4 CON VI
WELL NAME Devran Sarnia 1-3-4-VI PERMIT 6449 INIT CLASS STR
OPERATOR Blackwell Petroleum Services Ltd.c/o Devran Petroleum Ltd. TARGET DEV CUR STATUS

DRILLING DATA

CONTRACTOR	W & G Waterwells Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP	0	KB ELEV	185.3
BOT	147.2	LOGGER	146.5
ROTRY TOP		DRILLER	147.2
BOT		DEEP END	
DRLG FLD	SU H2O	PLUG BK	

DATES

PERMIT	1984-03-09
SPUD	1984-03-19
COMPTD	1984-03-21
OFFCNF	1985-03-21
WRKOVR	
ABNOND	

COORDINATES

NORTH		m
SOUTH	419.1	m
EAST	228.6	m
WEST		m
LAT	42-58-42	
LONG	82-15-33	

SAMPLES

TOP	39.2	
BOT	107.5	
TRAY	2078	

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	25.3	39.2	CEM	

COMPLETION DATA

GAS	$10^3 m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m

PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
107.0 – 117.0	SHOW	
122.8 – 130.6		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0 – 144.2	GRNL	Computalog
103.0 – 145.2	DENL	"
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	Main
107.3 – 134.3	COM	N	
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	0		
PORT LAMBTON			
KETTLE POINT			
HAMILTON	33.0		
MARCELLUS			
DUNDEE	106.5		
COLUMBUS			
LUCAS			
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY: Lambton TWP: Sarnia BLK: TRAC: 4-5 LOT: 4 CON: VII
WELL NAME: Devran Sarnia 4-5-4-VII PERMIT: 6450 INIT CLASS: STR
OPERATOR: Devran Petroleum Ltd. TARGET: DEV CUR STATUS:

DRILLING DATA

CONTRACTOR	W.G. Waterwells Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	186.7
BOT		LOGGER	145.5
ROTRY TOP	0	DRILLER	147.5
BOT	147.5	DEEP END	
DRLG FLD	SU H2O	PLUG BK	

DATES

PERMIT	1984-03-09
SPUD	1984-03-13
COMPTD	1984-03-16
OFFCNF	1985-03-16
WRKOVR	
ABNDND	

COORDINATES

NORTH	419.1	m
SOUTH		m
EAST		m
WEST	76.2	m
LAT	42-59-10	
LONG	82-15-20	

SAMPLES

TOP	43.5
BOT	105.3
TRAY	68

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
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–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	25.3	38.0	CE M	

COMPLETION DATA

GAS	$10^3m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
105.1 – 115.8		
121.0 – 122.7	SHOW	
127.3 – 129.1		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0 – 143.3	GRNL	Computalog
98.0 – 144.5	DENL	Computalog
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
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–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	
105.3 – 123.0	COM		N
127.6 – 135.3	COM		N
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.3		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT			
DEVONIAN: HAMILTON	31.0		
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	105.0		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS			
DEVONIAN: AMHERSTBURG			
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC			
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS			
SILURIAN: G SHALE			
SILURIAN: F SHALE			
SILURIAN: F SALT			
SILURIAN: E CARBONATE			
SILURIAN: D SALT/EQUIVALENT			
SILURIAN: C SHALE			
SILURIAN: B MARKER			
SILURIAN: B EQUIVALENT			
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE			
SILURIAN: A2 CARBONATE			
SILURIAN: A2 SALT			
SILURIAN: A2 ANHYDRITE			
SILURIAN: A1 CARBONATE			
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH			
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/WARTON			
SILURIAN: DECEW			
SILURIAN: ROCHESTER			
SILURIAN: IRONDEQUOIT			
SILURIAN: REYNALES/FOSSIL HILL			
SILURIAN: THOROLD			
SILURIAN: GRIMSBY			
SILURIAN: CABOT HEAD			
SILURIAN: MANITOULIN			
SILURIAN: WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
ORDOVICIAN: BLUE MOUNTAIN - GEORG. BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY: Debra K. Parker

CTY: Lambton TWP: Sarnia BLK: TRAC: 3-2 LOT: 4 CON: VII
WELL NAME: Devran Sarnia 3-2-4-VII PERMIT: 6451 INIT CLASS: STR
OPERATOR: Devran Petroleum Ltd. TARGET: DEV CUR STATUS:

DRILLING DATA

CONTRACTOR	W. G. Waterwells Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	184.2
BOT		LOGGER	147.2
ROTRY TOP	0	DRILLER	147.2
BOT	147.2	DEEP END	
DRLG FLD	SULH2O	PLUG BK	

DATES

PERMIT	1984-03-12
SPUD	1984-03-15
COMPTD	1984-03-15
OFFCNF	1985-03-15
WRKOVR	
ABNDND	

COORDINATES

NORTH		m
SOUTH	251.5	m
EAST	76.2	m
WEST		m
LAT	42-59-32	
LONG	82-15-40	

SAMPLES

TOP	43.5
BOT	110.6
TRAY	1948

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	25.3	42.5	CE M	

COMPLETION DATA

GAS	$10^3m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
112.2 – 122.5	SHOW	
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0 – 145.0	GRNL	Computalog
107.0 – 145.5	DENL	Computalog
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
119.5 –		SU
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	
110.6 – 137.9	COM		N
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	0		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT			
DEVONIAN: HAMILTON	36.4		
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	112.2		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS			
DEVONIAN: AMHERSTBURG			
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC			
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS			
SILURIAN: G SHALE			
SILURIAN: F SHALE			
SILURIAN: F SALT			
SILURIAN: E CARBONATE			
SILURIAN: D SALT/EQUIVALENT			
SILURIAN: C SHALE			
SILURIAN: B MARKER			
SILURIAN: B EQUIVALENT			
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE			
SILURIAN: A2 CARBONATE			
SILURIAN: A2 SALT			
SILURIAN: A2 ANHYDRITE			
SILURIAN: A1 CARBONATE			
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH			
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/WARTON			
SILURIAN: DECEW			
SILURIAN: ROCHESTER			
SILURIAN: IRONDEQUOIT			
SILURIAN: REYNALES/FOSSIL HILL			
SILURIAN: THOROLD			
SILURIAN: GRIMSBY			
SILURIAN: CABOT HEAD			
SILURIAN: MANITOULIN			
SILURIAN: WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
ORDOVICIAN: BLUE MOUNTAIN - GEORG. BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY: Debra K. Parker

CTY Lambton TWP Sarnia BLK TRAC 4-6 LOT 5 CON VII
WELL NAME Devran Sarnia 4-6-5-VII PERMIT 6456 INIT CLASS STR
OPERATOR Devran Petroleum Ltd. TARGET DEV CUR STATUS

DRILLING DATA
CONTRACTOR W. G. Waterwells Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 184.5
BOT LOGGER 146.0
ROTRY TOP 1.0 DRILLER 147.2
BOT 147.2 DEEP END
DRLG FLD Water PLUG BK

DATES
PERMIT 1984-03-19
SPUD 1984-03-13
COMPTD 1984-03-18
OFFCNF 1985-03-18
WRKOVR
ABNDND

COORDINATES
NORTH 419.1 m
SOUTH m
EAST 227.0 m
WEST m
LAT 42-59-10
LONG 82-16-00

SAMPLES
TOP 37.4
BOT 147.2
TRAY 2002

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	25.3	38.5	CEM	

COMPLETION DATA
GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
106.6 – 117.8	SHOW	
123.5 – 130.4		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
7.8 – 143.5	GRNL	Computalog
99.7 – 146.2	DENL	Computalog
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	MM
107.1 – 134.6	COH		N
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.0		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON	32.6		
MARCELLUS			
DUNDEE	106.5		
COLUMBUS			
LUCAS			
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
SILURIAN: A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG. BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Lambton TWP Sarnia BLK TRAC 1-5 LOT 6 CON VII
WELL NAME Devran Sarnia 1-5-6-VII PERMIT 6428 INIT CLASS STR
OPERATOR Blackwell Petroleum Services Ltd. TARGET DEV CUR STATUS
c/oDevron Pet. Ltd.

DRILLING DATA
CONTRACTOR W & G Waterwells Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 184.6
BOT LOGGER 146.7
ROTRY TOP 1.0 DRILLER 147.2
BOT 147.6 DEEP END
DRLG FLD FW PLUG BK

DATES
PERMIT 1984-01-18
SPUD 1984-01-13
COMPTD 1984-01-15
OFFCNF 1985-01-15
WRKOVR
ABNDND

COORDINATES
NORTH 586.7 m
SOUTH m
EAST m
WEST 76.2 m
LAT 42-59-16
LONG 82-16-13

SAMPLES
TOP 41.2
BOT 108.5
TRAY 2092

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	25.3	41.2	CEM	

COMPLETION DATA
GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
107.9 – 118.5		
124.0 – 126.5		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0 – 144.2	GRNL	Computalog
101.5 – 146.7	DENL	Computalog
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
112.9 –	56.5	SUL
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	MM
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.0		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON	33.5		
MARCELLUS			
DUNDEE	107.8		
COLUMBUS			
LUCAS			
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
SILURIAN: A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG. BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Lambton TWP Sarnia BLK TRAC LOT 8 CON B
WELL NAME Dome Amoco RD-7A PERMIT 6563 INIT CLASS LPG
OPERATOR Dome Petroleum Ltd. TARGET SAL CUR STATUS LPG

DRILLING DATA		DATES		COORDINATES		SAMPLES
CONTRACTOR B & S Rotary Drilling Ltd.		PERMIT 1984-07-26		NORTH 107.3 m		TOP
RIG TYPE ROT	DEPTHS	SPUD 1984-08-14		SOUTH m		BOT
CABLE TOP	KB ELEV 192.6	COMPTD 1984-08-26		EAST 643.8 m		TRAY
BOT	LOGGER 810.0	OFFCNF 1985-08-26		WEST m		
ROTRY TOP 5.4	DRILLER 810.0	WRKOVR		LAT 42-56-58		
BOT 810.0	DEEP END	ABNDND		LONG 82-21-40		
DRLG FLD Brine	PLUG BK					

INITIAL GAS RECORD			CASING AND TUBING RECORD					COMPLETION DATA	
INTERVAL	FLOW	SIP	DIAM	WEIGHT	SET AT	HOW SET	RECOV	GAS	$10^3 m^3/d$
–			508	140	72.0	CEM		OIL	m^3/d
–			340	81	795.7			SIP	kPa
–								FORM	
–								INTRVL	m
–									m
–									m

INITIAL OIL RECORD			LOGGING RECORD			PERF ☐ OPEN HOLE ☐
INTERVAL	FLOW	DENSITY	INTERVAL	TYPE	COMPANY	REMARKS
–			10.0 – 808.0	DIR	Schlumberger	
–			9.0 – 803.5	CNFD	"	
–			–			
–			–			
–			–			

INITIAL WATER RECORD			CORING RECORD			
INTERVAL	STAT LEV	TYPE	INTERVAL	LOCATION	NO	ANAL
–			–			
–			–			
–			–			
–			–			
–			–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	5.4		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	42.6		
	HAMILTON	61.2		
	MARCELLUS			
	DUNDEE	155.4		
	COLUMBUS			
	LUCAS	203.0		
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC	297.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	353.8		
	G SHALE	429.8		
	F SHALE	436.9		
	F SALT	460 .		
	E CARBONATE	561.2		
	D SALT/EQUIVALENT	589.3/585.7		
	C SHALE	601.0		
	B MARKER	622.0		
	B EQUIVALENT			
	B SALT	628.7		
	B ANHYDRITE	715.0		
	A2 CARBONATE	716.0		
	A2 SALT	761.4		

	A2 ANHYDRITE	799.2		
	A1 CARBONATE	801.0		
	A1 SALT			
SILURIAN	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY:

CTY Lambton TWP Sarnia BLK TRAC LOT 39 CON XX
WELL NAME Esso Cavern 982A Sarnia 39-XX PERMIT 6493 INIT CLASS NGS
OPERATOR Esso Resources Canada Ltd. TARGET SAL CUR STATUS NGS

DRILLING DATA		DATES		COORDINATES		SAMPLES
CONTRACTOR B & S Rotary Drilling Ltd.		PERMIT 1984-05-03		NORTH m		TOP 92.0
RIG TYPE ROT	DEPTHS	SPUD 1984-05-15		SOUTH 82.0 m		BOT 672.0
CABLE TOP	KB ELEV 186.4	COMPTD 1984-06-03		EAST m		TRAY 167
BOT	LOGGER 714.0	OFFCNF 1985-06-3		WEST 341.8 m		
ROTRY TOP 3.3	DRILLER 714.0	WRKOVR		LAT 42-56-56		
BOT 714.0	DEEP END	ABNDND		LONG 82-23-13		
DRLG FLD Mud	PLUG BK					

INITIAL GAS RECORD			CASING AND TUBING RECORD					COMPLETION DATA	
INTERVAL	FLOW	SIP	DIAM	WEIGHT	SET AT	HOW SET	RECOV	GAS:	$10^3 m^3/d$
–			508		64.0	CEM		OIL:	m^3/d
–			340		397.2	CEM		SIP:	kPa
–			273		623.9	CEM		FORM:	
–			178		712.6	HAN		INTRVL:	m
–									m
–									m

INITIAL OIL RECORD			LOGGING RECORD			PERF ☐ OPEN HOLE ☒
INTERVAL	FLOW	DENSITY	INTERVAL	TYPE	COMPANY	REMARKS
–			61.0 – 625.8	CALP	Computalog	
–			–			
–			–			
–			–			
–			–			

INITIAL WATER RECORD			CORING RECORD			
INTERVAL	STAT LEV	TYPE	INTERVAL	LOCATION	NO	ANAL
–			–			
–			–			
–			–			
–			–			
–			–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	3.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	153.4		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC	338.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	356.1		
	G SHALE	439.2		
	F SHALE	445.1		
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT	463.1		
	C SHALE	625.3		
	B MARKER	631.0		
	B EQUIVALENT			
	B SALT	637.4		
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
SILURIAN	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY: Debra K. Parker

CTY: Lambton TWP: Sombra BLK: TRAC: 5 LOT: A CON: XII

WELL NAME: Cons/OEC 33853 Sombra 5-A-XII PERMIT: 6624 INIT CLASS: NPW

OPERATOR: The Consumers' Gas Company Ltd. TARGET: SAL CUR STATUS: DH-Abd

DRILLING DATA

CONTRACTOR: Charles Shaw Drilling Ltd.

RIG TYPE: CAB DEPTHS

CABLE TOP: 1.5 KB ELEV: 181.4

BOT: 706.0 LOGGER: 704.8

ROTRY TOP: DRILLER: 706.0

BOT: DEEP END:

DRLG FLD: DRY PLUG BK:

DATES

PERMIT: 1984-11-07

SPUD: 1984-11-08

COMPTD: 1984-12-12

OFFCNF: 1985-12-12

WRKOVR:

ABNDND: 1984-12-14

COORDINATES

NORTH: 566.9 m

SOUTH: m

EAST: m

WEST: 195.1 m

LAT: 42-43-23

LONG: 82-28-04

SAMPLES

TOP: 48.0

BOT: 706.0

TRAY: 9873

9874

INITIAL GAS RECORD

INTERVAL		FLOW	SIP
–			
–			
–			
–			
–			

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.0	52.5	SHO	52.5
219	36.0	194.7	SHO	194.7
178	30.0	402.2	CEM	

COMPLETION DATA

GAS: $10^3 m^3/d$

OIL: m^3/d

SIP: kPa

FORM:

INTRVL: m

m

m

PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL		FLOW	DENSITY
–			
–			
–			
–			
–			

LOGGING RECORD

INTERVAL		TYPE	COMPANY
3.4	– 702.4	GRNL	Computalog
577.3	– 704.7	DENL	"
	–		
	–		
	–		
	–		
	–		

REMARKS

INITIAL WATER RECORD

INTERVAL		STAT LEV	TYPE
223.0	–	45.0	SUL
	–		
	–		
	–		
	–		

CORING RECORD

INTERVAL		LOCATION	NO	mm
	–			
	–			
	–			
	–			
	–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.5		
DEVONIAN	PORT LAMBTON	48.3		
	KETTLE POINT	60.2		
	HAMILTON	123.2		
	MARCELLUS			
	DUNDEE	192.8		
	COLUMBUS			
	LUCAS	218.5		
	AMHERSTBURG	295.7		
	SYLVANIA			
	BOIS BLANC	315.8		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	343.8		
	G SHALE	392.0		
	F SHALE	397.7		
	F SALT			
	E CARBONATE	426.8		
	D SALT/EQUIVALENT	469.6		
	C SHALE	477.8		
	B MARKER	489.8		
	B EQUIVALENT			
	B SALT	498.0		
	B ANHYDRITE			
	A2 CARBONATE	580.2		
	A2 SALT	627.1		
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	649.6		
	A1 SALT			
	A1 ANHYDRITE	688.3		
	GUELPH	693.3		
	ERAMOSA			
	GOAT ISLAND	698.5		
	GASPORT/WARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY: Debra K. Parker

CTY: Lambton TWP: Sombra BLK: TRAC: LOT: 15 CON: XIII

WELL NAME: Tec Wilkesport #12 Sombra 15-XIII PERMIT: 6453 INIT CLASS: NGS

OPERATOR: Tecumseh Gas Storage Ltd. TARGET: SAL CUR STATUS: NGS

DRILLING DATA

CONTRACTOR: James Newport Drilling Ltd.

RIG TYPE: CAB DEPTHS

CABLE TOP: 1.4 KB ELEV: 184.9

BOT: 616.0 LOGGER: 615.8

ROTRY TOP: DRILLER: 616.0

BOT: DEEP END:

DRLG FLD: Dry PLUG BK:

DATES

PERMIT: 1984-03-14

SPUD: 1984-03-15

COMPTD: 1984-04-26

OFFCNF: 1985-05-26

WRKOVR:

ABNDND:

COORDINATES

NORTH: m

SOUTH: 365.0 m

EAST: 173.8 m

WEST: m

LAT: 42-44-13

LONG: 82-21-29

SAMPLES

TOP: 42.0

BOT: 616.0

TRAY: 17

INITIAL GAS RECORD

INTERVAL		FLOW	SIP
573.0	– 574.0	1.25	
586.0	–		758.4
594.0	–		1792.6
613.0	–		1930.5
	–		
	–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	81.1	42.7	SHO	
273	60.3	176.8	SHO	176.0
219	35.7	381.9	CEM	
178	34.2	572.9	CEM	

COMPLETION DATA

GAS: $10^3 m^3/d$

OIL: m^3/d

SIP: kPa

FORM: A1 Carb- Guelph

INTRVL: 573.0 – 615.8 m

m

m

PERF ☐ OPEN HOLE ☑

INITIAL OIL RECORD

INTERVAL		FLOW	DENSITY
–			
–			
–			
–			
–			

LOGGING RECORD

INTERVAL		TYPE	COMPANY
0	– 613.5	GRNL	Computalog
573.0	– 615.0	DENL	Computalog
	–		
	–		
	–		
	–		
	–		

REMARKS

INITIAL WATER RECORD

INTERVAL		STAT LEV	TYPE
41.0	–		FRE
175.0	– 176.0	42.0	SUL
	–		
	–		
	–		
	–		

CORING RECORD

INTERVAL		LOCATION	NO	mm
	–			
	–			
	–			
	–			
	–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.4		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	40.5		
	HAMILTON	105.8		
	MARCELLUS			
	DUNDEE	173.4		
	COLUMBUS			
	LUCAS	205.6		
	AMHERSTBURG	277.5		
	SYLVANIA			
	BOIS BLANC	315.2		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	337.8		
	G SHALE	373.2		
	F SHALE	381.2		
	F SALT			
	E CARBONATE	413.7		
	D SALT/EQUIVALENT	445.4		
	C SHALE	452.0		
	B MARKER	462.2		
	B EQUIVALENT			
	B SALT	468.0		
	B ANHYDRITE			
	A2 CARBONATE	532.2		
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	573.0		
	A1 SALT			
	A1 ANHYDRITE	582.3		
	GUELPH	587.3		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY: Debra K. Parker

CTY Lambton TWP Sombra BLK TRAC 7 LOT 24 CON XI
WELL NAME Francisco HRL Sombra 24-XI PERMIT 6542 INIT CLASS DEV
OPERATOR Francisco Petroleum Enterprises Inc. TARGET SAL CUR STATUS OP - GS

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Rawlings Drilling Co. Ltd.			PERMIT	1984-06-25	NORTH	109.9	m	TOP	36.0
RIG TYPE	CAB	DEPTHS		SPUD	1984-06-21	SOUTH		m	BOT	613.6
CABLE TOP	1.3	KB ELEV	190.8	COMPTD	1984-08-30	EAST	259.1	m	TRAY	757
BOT	613.6	LOGGER	613.3	OFFCNF	1984-09-30	WEST		m		
ROTRY TOP		DRILLER	613.6	WRKOVR		LAT	42-42-11			
BOT		DEEP END		ABNDND	1985-10-25	LONG	82-17-30			
DRLG FLD	FRE WATER	PLUG BK	Surface							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
599.5 – 602.3	4.2	
602.3 – 603.8	5.0	
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	60.3	36.0	SHO	36.0
219	35.7	157.3	SHO	157.3
178	29.8	356.0	CEM	346.9
114	14.1	613.3	CEM	579.1

COMPLETION DATA

GAS 10³m³/d
OIL m³/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
602.3 – 603.8	Show	
603.8 – 605.3	0.477	
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 611.1	GRNL	Computalog
560.5 – 611.1	DENL	"
532.2 – 601.7	CMPL	"
–		
–		
–		
–		

PERF ☑ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
161.5 – 164.6	30.5	SUL
609.6 – 612.0	412.0	SAL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.3		
DEVONIAN	PORT LAMBTON	36.3		
	KETTLE POINT	46.0		
	HAMILTON	91.1		
	MARCELLUS			
	DUNDEE	157.0		
	COLUMBUS			
	LUCAS	183.8		
	AMHERSTBURG	243.5		
	SYLVANIA			
	BOIS BLANC	292.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	304.2		
	G SHALE	341.7		
	F SHALE	348.1		
	F SALT			
	E CARBONATE	381.3		
	D SALT/EQUIVALENT	417.9		
	C SHALE	421.2		
	B MARKER	433.1		
	B EQUIVALENT			
	B SALT	441.7		
	B ANHYDRITE			
	A2 CARBONATE	508.7		
	A2 SALT	550.5		
	A2 ANHYDRITE	565.4		
	A1 CARBONATE	566.6		
	A1 SALT			
	A1 ANHYDRITE	597.4		
	GUELPH	601.1		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/MARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY:

CTY Lambton TWP Sombra BLK TRAC 2 LOT 26 CON VI
WELL NAME Ram #76 Sombra 2-26-VI PERMIT 6521 INIT CLASS NPW
OPERATOR Ram Petroleums Limited TARGET CAM CUR STATUS DH-ABD

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Underwater Gas Developers Ltd.			PERMIT	1984-05-22	NORTH		m	TOP	65.0
RIG TYPE	ROT	DEPTHS		SPUD	1984-06-12	SOUTH	220.0	m	BOT	1166.0
CABLE TOP		KB ELEV	185.2	COMPTD	1984-06-18	EAST	106.7	m	TRAY	9979
BOT		LOGGER	1168.1	OFFCNF	1985-06-18	WEST		m		9980
ROTRY TOP	2.0	DRILLER	1170.0	WRKOVR		LAT	42 39' 01"			
BOT	1170.0	DEEP END		ABNDND	1984-06-19	LONG	82 16' 50"			
DRLG FLD	Salt Water	PLUG BK								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.6	61.8	CEM	
178	29.8	409.5	CEM	

COMPLETION DATA

GAS 10³m³/d
OIL m³/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
53.8 – 1162.5	SONL	Schlumberger
621.5 – 1167.0	DIPM	"
381.5 – 1167.0	DENL	"
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
188.0 –		SUL
1163.0 –		SAL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	2.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	20.7		
	HAMILTON	117.0		
	MARCELLUS			
	DUNDEE	183.5		
	COLUMBUS			
	LUCAS	213.3		
	AMHERSTBURG	284.5		
	SYLVANIA			
	BOIS BLANC	318.7		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	340.3		
	G SHALE	383.2		
	F SHALE	389.3		
	F SALT			
	E CARBONATE	416.8		
	D SALT/EQUIVALENT	460.2		
	C SHALE	461.7		
	B MARKER	474.2		
	B EQUIVALENT	480.3		
	B SALT	490.2		
	B ANHYDRITE			
	A2 CARBONATE	508.2		
	A2 SALT	553.2		
	A2 ANHYDRITE			
	A1 CARBONATE	563.7		
	A1 SALT			
	A1 ANHYDRITE	599.7		
	GUELPH	605.4		
	ERAMOSA			
	GOAT ISLAND	611.5		
	GASPORT/MARTON	621.8		
	DECEW			
	ROCHESTER	639.0		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	646.8		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	648.0		
	MANITOULIN	667.2		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	690.8		
	BLUE MOUNTAIN - GEORG BAY	784.0		
	COLLINGWOOD			
	COBOURG	879.2		
	VERULAM	925.0		
	KIRKFIELD	972.6		
	COBOCONK	1018.5		
	GULL RIVER	1053.4		
	SHADOW LAKE			
	CAMBRIAN	1163.0		
	PRECAMBRIAN	1165.0		

GEOLOGY BY:

CTY Lambton TWP Warwick BLK TRAC 6 LOT 3 CON IV SER
WELL NAME C.G. Oil #2 Warwick 6-3-IV SER PERMIT 6608 INIT CLASS NPW
OPERATOR C.G. Oil Exploration Inc. TARGET SAL CUR STATUS DH-Abd

DRILLING DATA

CONTRACTOR W & G Water Well Circle A Drilling
RIG TYPE CAB & ROT
CABLE TOP 420.6 DEPTHS
BOT 679.7 KB ELEV 213.6
ROTRY TOP 0.8 LOGGER
BOT 420.6 DRILLER 679.7
DRLG FLD DEEP END
PLUG BK

DATES

PERMIT 1984-10-04
SPUD 1984-10-05
COMPTD 1984-11-10
OFFCNF 1985-11-10
WRKOVR
ABNDND 1984-11-14

COORDINATES

NORTH m
SOUTH 683.7 m
EAST 221.6 m
WEST m
LAT 42-57-40
LONG 81-59-49

SAMPLES

TOP 24.0
BOT 679.0
TRAY 921

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219		22.8	CEM	
178		343.8	CEM	149.0

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	0.8		
DEVONIAN: PORT LAMBTON			
KETTLE POINT	13.7		
HAMILTON	38.1		
MARCELLUS			
DUNDEE	122.0		
COLUMBUS			
LUCAS	149.0		
AMHERSTBURG	229.0		
SYLVANIA			
BOIS BLANC	256.2		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	298.0		
G SHALE	344.1		
F SHALE	351.7		
F SALT			
E CARBONATE	373.2		
D SALT/EQUIVALENT	443.1		
C SHALE	457.2		
B MARKER			
B EQUIVALENT			
B SALT	481.4		
B ANHYDRITE			
A2 CARBONATE	559.0		
A2 SALT	604.0		
A2 ANHYDRITE			
A1 CARBONATE	628.0		
A1 SALT			
A1 ANHYDRITE	667.1		
GUELPH	672.0		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Lambton TWP Warwick BLK TRAC 2 LOT 12 CON IV SER
WELL NAME C.G. Oil #1 Warwick 2-12-IV SER PERMIT 6551 INIT CLASS NPW
OPERATOR C.G. Oil Exploration Inc. TARGET SAL CUR STATUS DH-Abd

DRILLING DATA

CONTRACTOR W.B. Water Wells Ltd.
RIG TYPE ROTARY & CAB
CABLE TOP 379.8 DEPTHS
BOT 657.0 KB ELEV 220.3
ROTRY TOP 0.8 LOGGER
BOT 379.8 DRILLER 657.0
DRLG FLD DEEP END
PLUG BK

DATES

PERMIT 1984-07-06
SPUD 1984-07-14
COMPTD 1984-08-14
OFFCNF 1985-08-14
WRKOVR
ABNDND 1984-08-17

COORDINATES

NORTH m
SOUTH 227.1 m
EAST 108.2 m
WEST m
LAT 42-57-56
LONG 81-55-53

SAMPLES

TOP 8.0
BOT 657.0
TRAY 598

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	47.6	29.0	CEM	0.9
178	34.0	348.0	CEM	302.3

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		

REMARKS

Cable drilling was done by Circle "A" Drilling Inc.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	0.8		
DEVONIAN: PORT LAMBTON			
KETTLE POINT	7.6		
HAMILTON	30.0		
MARCELLUS			
DUNDEE	115.8		
COLUMBUS			
LUCAS	142.7		
AMHERSTBURG	232.0		
SYLVANIA			
BOIS BLANC	282.7		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	289.1		
G SHALE	335.0		
F SHALE	341.0		
F SALT			
E CARBONATE	391.9		
D SALT/EQUIVALENT	419.0/446.0		
C SHALE	427.0		
B MARKER	447.2		
B EQUIVALENT			
B SALT	494.0		
B ANHYDRITE			
A2 CARBONATE	532.0		
A2 SALT	579.1		
A2 ANHYDRITE	597.1		
A1 CARBONATE	599.0		
A1 SALT			
A1 ANHYDRITE	640.0		
GUELPH	651.5		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY: Lambton TWP: Warwick BLK: TRAC: 3 LOT: 13 CON: VII

WELL NAME: Kingdon #4A Warwick 3-3-13-VII PERMIT: 6407A INIT CLASS: NPW

OPERATOR: 490900 Ontario Ltd. TARGET: DEV CUR STATUS: DH-ABD

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Kingdon, Ron			PERMIT		NORTH	m	TOP	24.0
RIG TYPE	CAB & BOT	DEPTHS		SPUD	1983-12-09	SOUTH	566.2 m	BOT	192.0
CABLE TOP		KB ELEV	231.6	COMPTD	1984-02-20	EAST	62.5 m	TRAY	1917
BOT		LOGGER		OFFCNF	1985-02-20	WEST	m		
ROTRY TOP		DRILLER	193.5	WRKOVR		LAT	43-05-04		
BOT		DEEP END		ABNDND	1984-02-28	LONG	81-55-28		
DRLG FLD		PLUG BK							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
127		39.6	CEM	

COMPLETION DATA

GAS 10³m³/d

OIL m³/d

SIP kPa

FORM

INTRVL m

m

m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☐

REMARKS

Skidded 1.5 meters from original hole

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
163.1–		SUL
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	0		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT			
DEVONIAN: HAMILTON	40.0		
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	128.7		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS	159.6		
DEVONIAN: AMHERSTBURG			
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC			
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS			
SILURIAN: G SHALE			
SILURIAN: F SHALE			
SILURIAN: F SALT			
SILURIAN: E CARBONATE			
SILURIAN: D SALT/EQUIVALENT			
SILURIAN: C SHALE			
SILURIAN: B MARKER			
SILURIAN: B EQUIVALENT			
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE			
SILURIAN: A2 CARBONATE			
SILURIAN: A2 SALT			
SILURIAN: A2 ANHYDRITE			
SILURIAN: A1 CARBONATE			
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH			
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/WARTON			
SILURIAN: DECEW			
SILURIAN: ROCHESTER			
SILURIAN: IRONDEQUOIT			
SILURIAN: REYNALES/FOSSIL HILL			
SILURIAN: THOROLD			
SILURIAN: GRIMSBY			
SILURIAN: CABOT HEAD			
SILURIAN: MANITOULIN			
SILURIAN: WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
ORDOVICIAN: BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY: Debra K. Parker

CTY: Lambton TWP: Warwick BLK: TRAC: 2-5 LOT: 27 CON: V SER

WELL NAME: Devran #7 Warwick 2-5-27 V SER PERMIT: 6420 INIT CLASS: STR

OPERATOR: Devran Petroleum Limited TARGET: Devonian CUR STATUS:

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	W & G Waterwells Ltd.			PERMIT	1983-12-20	NORTH	m	TOP	51.0
RIG TYPE	Rotary	DEPTHS		SPUD	1983-12-19	SOUTH	754.4 m	BOT	118.5
CABLE TOP		KB ELEV	248.8	COMPTD	1984-01-07	EAST	m	TRAY	152
BOT		LOGGER	147.2	OFFCNF	1985-01-07	WEST	228.6 m		
ROTRY TOP	1.0 m	DRILLER	147.2	WRKOVR		LAT	42-56-56		
BOT	147.2 m	DEEP END		ABNDND		LONG	81-48-54		
DRLG FLD	FW	PLUG BK							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	25.3	51.0	Cement	

COMPLETION DATA

GAS 10³m³/d

OIL m³/d

SIP kPa

FORM

INTRVL m

m

m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
121.3 – 121.4		
121.7 – 122.5		
127.5 – 128.0		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0 – 144.0	GRNL	Computalog
115.0 – 147.2	DNL	Computalog
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.0		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT			
DEVONIAN: HAMILTON	40.0		
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	118.3		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS			
DEVONIAN: AMHERSTBURG			
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC			
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS			
SILURIAN: G SHALE			
SILURIAN: F SHALE			
SILURIAN: F SALT			
SILURIAN: E CARBONATE			
SILURIAN: D SALT/EQUIVALENT			
SILURIAN: C SHALE			
SILURIAN: B MARKER			
SILURIAN: B EQUIVALENT			
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE			
SILURIAN: A2 CARBONATE			
SILURIAN: A2 SALT			
SILURIAN: A2 ANHYDRITE			
SILURIAN: A1 CARBONATE			
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH			
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/WARTON			
SILURIAN: DECEW			
SILURIAN: ROCHESTER			
SILURIAN: IRONDEQUOIT			
SILURIAN: REYNALES/FOSSIL HILL			
SILURIAN: THOROLD			
SILURIAN: GRIMSBY			
SILURIAN: CABOT HEAD			
SILURIAN: MANITOULIN			
SILURIAN: WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
ORDOVICIAN: BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY: Debra K. Parker

CTY Lambton TWP Warwick BLK TRAC 4-1 LOT 28 CON V SER
WELL NAME Smith Warwick 4-1-28-V SER PERMIT 6575 INIT CLASS NPW
OPERATOR Ron Smith & Bill Nichols TARGET DEV CUR STATUS OS-Abd

DRILLING DATA
CONTRACTOR Ron Smith Well Drilling Ltd.
RIG TYPE CAB & BOT DEPTHS
CABLE TOP 112.7 KB ELEV 24[illegible] m
BOT 147.5 LOGGER
ROTRY TOP 0.8 DRILLER 147.5
BOT 112.7 DEEP END
DRLG FLD PLUG BK

DATES
PERMIT 1984-08-20
SPUD 1984-08-18
COMPTD 1984-09-10
OFFCNF 1985-09-10
WRKOVR
ABNDND 1984-10-11

COORDINATES
NORTH m
SOUTH 243.9 m
EAST m
WEST 76.8 m
LAT 42-57-12
LONG 81-48-19

SAMPLES
TOP 35.0
BOT 147.2
TRAY 123

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	25.3	112.5	CEM	88.1

COMPLETION DATA
GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF OPEN HOLE

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
125.6 – 126.8	Show	
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
24.4 – 27.4		FRE
138.7 – 140.2		SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	0.8		
DEVONIAN: PORT LAMBTON			
KETTLE POINT	35.1		
HAMILTON	51.8		
MARCELLUS			
DUNDEE	110.3		
COLUMBUS			
LUCAS	138.7		
AMHERSTBURG	147.5		
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
SILURIAN: A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Lambton TWP Warwick BLK TRAC 4-1 LOT 30 CON 1 NER
WELL NAME Kingdon #5 Warwick 4-1-30-1NER PERMIT 6432 INIT CLASS NPW
OPERATOR 490900 Ontario Ltd. TARGET DEV CUR STATUS DH-Abd

DRILLING DATA
CONTRACTOR 490900 Ontario Ltd.
RIG TYPE Rotary DEPTHS
CABLE TOP KB ELEV 255.9
BOT LOGGER
ROTRY TOP 0.2 DRILLER 1.5
BOT 190.5 DEEP END
DRLG FLD PLUG BK

DATES
PERMIT 1984-07-23
SPUD 1984-08-09
COMPTD 1984-08-13
OFFCNF 1985-08-13
WRKOVR
ABNDND 1984-08-13

COORDINATES
NORTH m
SOUTH 325.2 m
EAST m
WEST 61.3 m
LAT 43-00-50
LONG 81-47-24

SAMPLES
TOP 31.0
BOT 190.5
TRAY 58

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	29.8	46.6	CEM	46.6

COMPLETION DATA
GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF [ ] OPEN HOLE [ ]

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
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REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
15.2 – 18.3		FRE
172.2 –		SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	0.2		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON	40.5		
MARCELLUS			
DUNDEE	127.1		
COLUMBUS			
LUCAS	165.0		
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
SILURIAN: A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Lincoln TWP Caistor BLK TRAC 2 LOT 1 CON IV
WELL NAME Zumstein #5 Caistor 2-1-IV PERMIT 6604 INIT CLASS DEV
OPERATOR TARGET CLI CUR STATUS GP

DRILLING DATA			DATES		COORDINATES			SAMPLES
CONTRACTOR			PERMIT		NORTH	m		TOP
RIG TYPE		DEPTHS	SPUD		SOUTH	242.8	m	BOT
CABLE TOP		KB ELEV 185.0	COMPTD	1984-10-16	EAST	152.4	m	TRAY
BOT		LOGGER	OFFCNF		WEST		m	
ROTRY TOP		DRILLER 150.9	WRKOVR		LAT	42-02-43		
BOT		DEEP END	ABANDND		LONG	79-35-27		
DRLG FLD		PLUG BK						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
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–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV

COMPLETION DATA

GAS	$10^3 m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m

PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
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–		
–		
–		

REMARKS

Re-entry

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
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–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL			
DRIFT / LAKE BOTTOM			
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE			
COLUMBUS			
LUCAS			
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
SILURIAN: A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
LABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Middlesex TWP Mosa BLK TRAC 2-8 LOT 3 CON III
WELL NAME Strathburn Mosa 2-8-3-III PERMIT 6442 INIT CLASS NFW
OPERATOR Blackwell Petroleum Services Ltd. TARGET DEV CUR STATUS DH-ABD

DRILLING DATA			DATES		COORDINATES			SAMPLES
CONTRACTOR	Circle "A" Drilling Ltd.		PERMIT	1984-03-01	NORTH	251.5	m	TOP 34.7
RIG TYPE	CAB	DEPTHS	SPUD	1984-02-22	SOUTH		m	BOT 158.0
CABLE TOP	0.7	KB ELEV 222.5	COMPTD	1984-03-03	EAST	386.0	m	TRAY 2060
BOT	158.0	LOGGER 158.0	OFFCNF		WEST		m	
ROTRY TOP		DRILLER 158.0	WRKOVR		LAT	42-46-50		
BOT		DEEP END	ABANDND	1984-03-04	LONG	81-44-09		
DRLG FLD	Water	PLUG BK Surface						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219	35.7	35.5	SHO	35.5
178	29.8	118.3	SHO	118.3

COMPLETION DATA

GAS	$10^3 m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m

PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0.3 – 155.5	GRNL	Computalog
118.0 – 157.5	DENL	Computalog
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
30.0 –		FRE
138.0 –	123.0	SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	0.7		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON	32.5		
MARCELLUS			
DUNDEE	115.8		
COLUMBUS	138.4		
LUCAS	150.5		
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
SILURIAN: A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Middlesex TWP Mosa BLK TRAC 4-2 LOT 4 CON II T
WELL NAME Strathburn Mosa 4-2-4-III PERMIT 6443 INIT CLASS NPW
OPERATOR Strathburn Petroleum Ltd. TARGET DEV CUR STATUS OS-ABD

DRILLING DATA

CONTRACTOR	Circle "A" Drilling Co.		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	0.7	KB ELEV	221.2
BOT	146.5	LOGGER	146.5
ROTRY TOP		DRILLER	146.5
BOT		DEEP END	
DRLG FLD	SUL H2O	PLUG BK	Surface

DATES

PERMIT	1984-01-01
SPUD	1984-01-07
COMPTD	1984-01-16
OFFCNF	1985-01-16
WRKOVR	
ABNDND	1984-01-16

COORDINATES

NORTH		m
SOUTH	238.4	m
EAST	228.6	m
WEST		m
LAT	42-44-50	
LONG	81-44-54	

SAMPLES

TOP	32.0
BOT	146.5
TRAY	1904

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219	35.7	12.2	SHO	12.2
178	29.8	100.2	SHO	100.2

COMPLETION DATA

GAS	$10^3m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
101.5 – 103.5	SHOW	
123.5 – 126.0	SHOW	
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
1.0 – 144.0	GRNL	Computalog
100.0 – 145.8	DENL	Computalog
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
29.0 –		FRE
128.5 –		SUL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ABN
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	0.7		
PORT LAMBTON			
KETTLE POINT			
HAMILTON	33.8		
MARCELLUS			
DUNDEE	100.5		
COLUMBUS	123.0		
LUCAS	131.0		
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY: Debra K. Parker

CTY Middlesex TWP Mosa BLK TRAC 3-2 LOT 6 CON V
WELL NAME Cons/ OEC 33796 Mosa 3-2-6-V PERMIT 6461 INIT CLASS DEV
OPERATOR The Consumers Gas Company Ltd TARGET DEV CUR STATUS OP

DRILLING DATA

CONTRACTOR	W.G. Waterwell Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	216.6
BOT		LOGGER	122.2
ROTRY TOP	1.3	DRILLER	125.0
BOT	125.0	DEEP END	
DRLG FLD	Fresh H2O	PLUG BK	123.0

DATES

PERMIT	1984-03-01
SPUD	1984-02-23
COMPTD	1984-02-24
OFFCNF	1984-03-24
WRKOVR	
ABNDND	

COORDINATES

NORTH		m
SOUTH	225.0	m
EAST	76.2	m
WEST		m
LAT	42-45-27	
LONG	81-46-59	

SAMPLES

TOP	37.4
BOT	125.0
TRAY	1757

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	25.8	37.9	CEM	
114	14.0	122.6	CEM	

COMPLETION DATA

GAS	$10^3m^3/d$
OIL	m^3/d
SIP	kPa
FORM	LUCAS
INTRVL	112.2 – 114.3 m
	m
	m
PERF ☑	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
91.8 – 93.0		
111.0 – 116.0		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0 – 120.5	GRNL	Computalog
66.0 – 121.5	DENL	Computalog
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
94.0 – 94.5	61.0	SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ABN
93.0 – 95.2	COM		N
107.0 – 115.5	COM		N
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.3		
PORT LAMBTON			
KETTLE POINT			
HAMILTON	24.5		
MARCELLUS			
DUNDEE	84.7		
COLUMBUS			
LUCAS	108.0		
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY: Debra K. Parker

CTY Middlesex TWP Mosa BLK TRAC 1 LOT 6 CON VI
WELL NAME Walker Water #1 Mosa 2-6-VI PERMIT 6569 INIT CLASS
OPERATOR Glencoe Waterflood Inc. TARGET DEV CUR STATUS

DRILLING DATA
CONTRACTOR Bothwell Drilling Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 216.0
BOT LOGGER 269.7
ROTRY TOP 1.2 DRILLER 271.3
BOT 271.3 DEEP END
DRLG FLD Form Water PLUG BK

DATES
PERMIT 1984-08-08
SPUD 1984-08-09
COMPTD 1984-09-22
OFFCNF 1985-09-22
WRKOVR
ABNDND

COORDINATES
NORTH m
SOUTH 59.4 m
EAST 199.5 m
WEST m
LAT 42-46-06
LONG 81-47-32

SAMPLES
TOP 27.1
BOT 271.3
TRAY 283

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	49.1	30.0	CEM	
178	25.3	187.0	CEM	

COMPLETION DATA
GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
3½ – 267.6	GRNL	Computalog
184.7 – 268.8	DENL	"
–		
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☒

REMARKS
Water well for secondary recovery in Glencoe Pool.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	MM
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.2		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	77.7		
COLUMBUS			
LUCAS	102.4		
AMHERSTBURG	152.4		
SYLVANIA			
BOIS BLANC	183.5		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	259.7		
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			

SILURIAN: A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Middlesex TWP Mosa BLK TRAC 2-7 LOT 7 CON VI
WELL NAME Brett Canacrude Mosa 2-7-7-VI PERMIT 6594 INIT CLASS DEV
OPERATOR H. Brett and Associates Ltd. TARGET DEV CUR STATUS OP

DRILLING DATA
CONTRACTOR Bothwell Drilling & Servicing Ltd
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 215.9
BOT LOGGER 122.5
ROTRY TOP 2.1 DRILLER 122.5
BOT 122.5 DEEP END
DRLG FLD PLUG BK

DATES
PERMIT 1984-09-21
SPUD 1984-09-25
COMPTD 1984-09-30
OFFCNF 1984-10-30
WRKOVR
ABNDND

COORDINATES
NORTH 231.7 m
SOUTH m
EAST 72.2 m
WEST m
LAT 42-45-18
LONG 81-47-29

SAMPLES
TOP 22.0
BOT 122.2
TRAY 118

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
109.7 –	Show	
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178		32.9	CEM	
114		101.2	CEM	

COMPLETION DATA
GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
109.7 – 112.8	Show	
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 118.3	GRNL	Computalog
79.9 – 119.8	DENL	"
–		
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☒

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	MM
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	2.1		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	83.8		
COLUMBUS	110.1		
LUCAS	115.8		
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			

SILURIAN: A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY: Middlesex TWP: Mosa BLK: TRAC: 7 LOT: 7 CON: VI

WELL NAME: Brett Canacrude Mosa 7-7-VI PERMIT: 6593 INIT CLASS: INJ

OPERATOR: H. Brett & Associates Ltd. TARGET: DEV CUR STATUS:

DRILLING DATA

CONTRACTOR: Bothwell Drilling & Servicing Ltd.
RIG TYPE: ROT DEPTHS
CABLE TOP: KB ELEV: 214.7
BOT: LOGGER: 118.2
ROTRY TOP: 2.1 DRILLER: 121.0
BOT: 121.0 DEEP END:
DRLG FLD: Water PLUG BK:

DATES

PERMIT: 1984-09-21
SPUD: 1984-10-03
COMPTD: 1984-10-05
OFFCNF: 1985-10-05
WRKOVR:
ABNDND:

COORDINATES

NORTH: 106.7 m
SOUTH: m
EAST: 121.9 m
WEST: m
LAT: 42-45-18
LONG: 81-47-29

SAMPLES

TOP: 34.0
BOT: 118.9
TRAY: 49

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
109.7 –	Show	
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178		27.7	CEM	
114		100.9	CEM	

COMPLETION DATA

GAS: $10^3m^3/d$
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
109.7 – 113.4	Show	
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0.6 – 116.1	GRNL	Computalog
80.2 – 118.6	DENL	"
–		
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ABN
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	2.1		
PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	82.3		
COLUMBUS			
LUCAS			
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY:

CTY: Middlesex TWP: W. WILLIAMS BLK: TRAC: 2 LOT: 14 CON: XIV

WELL NAME: Protero W. Williams 2-14-XIV PERMIT: 6381 INIT CLASS: NPW

OPERATOR: Protero Petroleums Ltd. TARGET: SAL CUR STATUS: GS-ABD

DRILLING DATA

CONTRACTOR: Newport, Lorne T.
RIG TYPE: CAB DEPTHS
CABLE TOP: 0.8 KB ELEV: 224.7
BOT: 588.3 LOGGER: 587.0
ROTRY TOP: DRILLER: 588.3
BOT: DEEP END:
DRLG FLD: Salt Brine PLUG BK:

DATES

PERMIT: 1983-11-04
SPUD: 1984-02-10
COMPTD: 1984-04-06
OFFCNF: 1985-04-06
WRKOVR:
ABNDND: 1984-04-13

COORDINATES

NORTH: m
SOUTH: 115.8 m
EAST: m
WEST: 115.8 m
LAT: 43-05-56
LONG: 81-40-26

SAMPLES

TOP: 63.1
BOT: 588.3
TRAY: 16

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
556.0 – 557.2	SHOW	
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		65.2	SHO	65.2
219		107.3	SHO	107.3
178		304.5	PAC	286.8

COMPLETION DATA

GAS: $10^3m^3/d$
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
0 – 584.6	GRNL	Computalog
539.5 – 587.0	DENL	Computalog
–		
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
61.0 –	42.7	FRE
73.2 –	42.7	FRE
118.9 –	44.2	SUL
558.4 –	9.1	SAL
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ABN
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	0.8		
PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	62.9		
COLUMBUS			
LUCAS	84.4		
AMHERSTBURG	112.1		
SYLVANIA			
BOIS BLANC	186.5		
SPRINGVALE			
ORISKANY			
BASS ISLANDS	234.4		
G SHALE	279.5		
F SHALE	285.6		
F SALT			
E CARBONATE	316.7		
D SALT/EQUIVALENT	350.2		
C SHALE	359.4		
B MARKER	375.8		
B EQUIVALENT			
B SALT	383.4		
B ANHYDRITE			
A2 CARBONATE	458.1		
A2 SALT	492.7		
A2 ANHYDRITE	511.1		
A1 CARBONATE	512.4		
A1 SALT			
A1 ANHYDRITE	545.6		
GUELPH	555.3		
ERAMOSA			
GOAT ISLAND	564.3		
GASPORT/WIARTON	575.5		
DECEW			
ROCHESTER	582.2		
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY: Debra K. Parker

CTY: Norfolk | TWP: Charlotteville | BLK: | TRAC: | LOT: 1 | CON: VI
WELL NAME: Starlite #5 Charlotteville 1-VI | PERMIT: 6610 | INIT CLASS: DEV
OPERATOR: Bayview Explorations Ltd. | TARGET: CLI | CUR STATUS: GP

DRILLING DATA
CONTRACTOR: Murray Rose Drilling Inc.
RIG TYPE: CAB | DEPTHS
CABLE TOP: 427.3 | KB ELEV: 225.6
BOT: 457.2 | LOGGER:
ROTRY TOP: | DRILLER: 457.2
BOT: | DEEP END:
DRLG FLD: | PLUG BK:

DATES
PERMIT: 1984-10-04
SPUD:
COMPTD: 1984-10-12
OFFCNF: 1984-11-11
WRKOVR:
ABNDND:

COORDINATES
NORTH: m
SOUTH: 173.7 m
EAST: 397.8 m
WEST: m
LAT: 42-44-33
LONG: 80-28-11

SAMPLES
TOP:
BOT:
TRAY:

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV

COMPLETION DATA
GAS: $10^3 m^3/d$
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☐

REMARKS
Deepened from 427.3 to 457.2 m.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO.	Ann
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	0.4		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE			
COLUMBUS			
LUCAS			
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
SILURIAN: A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG. BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY:

CTY: Norfolk | TWP: Charlotteville | BLK: | TRAC: | LOT: 1 | CON: VI
WELL NAME: Starlite #4 Charlotteville 1-VI | PERMIT: 6611 | INIT CLASS: DEV
OPERATOR: Bayview Explorations Ltd. | TARGET: CLI | CUR STATUS: GP

DRILLING DATA
CONTRACTOR: Murray Rose Drilling Inc.
RIG TYPE: CAB | DEPTHS
CABLE TOP: 415.7 | KB ELEV: 225.2
BOT: 457.2 | LOGGER:
ROTRY TOP: | DRILLER: 457.2
BOT: | DEEP END:
DRLG FLD: | PLUG BK:

DATES
PERMIT: 1984-10-04
SPUD:
COMPTD: 1984-10-09
OFFCNF: 1984-11-09
WRKOVR:
ABNDND:

COORDINATES
NORTH: m
SOUTH: 259.1 m
EAST: 106.7 m
WEST: m
LAT: 42-44-25
LONG: 80-28-20

SAMPLES
TOP:
BOT:
TRAY:

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV

COMPLETION DATA
GAS: $10^3 m^3/d$
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☐

REMARKS
Deepened from 415.7 to 457.2

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO.	Ann
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	.6		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE			
COLUMBUS			
LUCAS			
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS			
G SHALE			
F SHALE			
F SALT			
E CARBONATE			
D SALT/EQUIVALENT			
C SHALE			
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE			
A2 SALT			
SILURIAN: A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH			
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER			
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY			
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG. BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY:

CTY: Norfolk TWP: Charlotteville BLK: TRAC: 2 LOT: 3 CON: IX
WELL NAME: Blazedale #1 Charlotteville 2-3-IX PERMIT: 6440 INIT CLASS: NPW
OPERATOR: W. T. Chatham Associates Ltd. TARGET: CLI CUR STATUS: GP

DRILLING DATA

CONTRACTOR	W. C. Waterwells		
RIG TYPE	CAB & ROT	DEPTHS	
CABLE TOP	353.3	KB ELEV	214.8
BOT	393.5	LOGGER	393.5
ROTRY TOP	0.9	DRILLER	393.5
BOT	353.3	DEEP END	
DRLG FLD		PLUG BK	363.0

DATES

PERMIT	1984-02-20
SPUD	1984-04-09
COMPTD	1984-05-02
OFFCNF	1985-05-02
WRKOVR	
ABNDND	

COORDINATES

NORTH		m
SOUTH	113.1	m
EAST	110.0	m
WEST		m
LAT	42-46-47	
LONG	80-29-09	

SAMPLES

TOP	52.0
BOT	392.0
TRAY	4325

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
355.0 – 355.7	0.19	3240
355.7 – 356.3	0.14	

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219		50.3	CEM	
114		352.3	CEM	

COMPLETION DATA

GAS	12.9	$10^3 m^3/d$
OIL		m^3/d
SIP	3275	kPa
FORM	GRIMSBY	
INTRVL		m
		m
		m
PERF		OPEN HOLE ☒

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY
1.0 – 391.5	GRNL	Computalog
353.0 – 393.2	DENL	Computalog

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
57.9 –		

CORING RECORD

INTERVAL	LOCATION	NO	MM

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	0.9		
PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	54.8		
COLUMBUS			
LUCAS	71.8		
AMHERSTBURG	82.0		
SYLVANIA			
BOIS BLANC	106.4		
SPRINGVALE			
ORISKANY			
BASS ISLANDS	135.8		
G SHALE	147.5		
F SHALE	154.6		
F SALT			
E CARBONATE	184.4		
D SALT/EQUIVALENT	215.4		
C SHALE	216.6		
B MARKER	228.7		
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE	241.7		
A2 SALT			
A2 ANHYDRITE			
A1 CARBONATE	258.8		
A1 SALT			
A1 ANHYDRITE			
GUELPH	263.0		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER	331.4		
IRONDEQUOIT	349.8		
REYNALES/FOSSIL HILL			
THOROLD	351.0		
GRIMSBY	356.0		
CABOT HEAD	365.7		
MANITOULIN	376.0		
WHIRLPOOL	383.7		
QUEENSTON	387.3		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY: Debra K. Parker

CTY: Norfolk TWP: Charlotteville BLK: TRAC: 1 LOT: 5 CON: IX
WELL NAME: Green Diamond 2 Charlotteville 1-5-IX PERMIT: 6348 INIT CLASS: DEV
OPERATOR: W. T. Chatham Associated Ltd. TARGET: CLI CUR STATUS: GP

DRILLING DATA

CONTRACTOR	Elgin, Mitchell & Sons		
RIG TYPE	CAB ROT	DEPTHS	
CABLE TOP	359.9	KB ELEV	230.4
BOT	404.5	LOGGER	404.5
ROTRY TOP	0.5	DRILLER	405.0
BOT	359.9	DEEP END	
DRLG FLD	Fresh H2O	PLUG BK	379.2

DATES

PERMIT	1983-09-20
SPUD	1983-10-11
COMPTD	1984-02-13
OFFCNF	1984-03-13
WRKOVR	
ABNDND	

COORDINATES

NORTH		m
SOUTH	164.1	m
EAST		m
WEST	184.3	m
LAT	42-47-10	
LONG	82-28-12	

SAMPLES

TOP	66.0
BOT	405.1
TRAY	5271

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
313.9 –		
363.2 – 364.2	2.86	1793

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219		70.7	CEM	
114		362.1	CEM	

COMPLETION DATA

GAS	7.33	$10^3 m^3/d$
OIL		m^3/d
SIP	4296	kPa
FORM	THOROLD	
INTRVL		m
		m
		m
PERF		OPEN HOLE ☒

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY
8.7 – 353.0	CNFD	Schlumberger
62.3 – 359.0	DLLM	"
193.2 – 355.0	CBLK	"
0 – 402.6	GRNL	Computalog
362.0 – 402.6	DENL	"

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
99.1 –		FRE

CORING RECORD

INTERVAL	LOCATION	NO	MM

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL			
DRIFT / LAKE BOTTOM			
PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	63.0		
COLUMBUS			
LUCAS	84.4		
AMHERSTBURG	97.3		
SYLVANIA			
BOIS BLANC	115.0		
SPRINGVALE			
ORISKANY			
BASS ISLANDS	153.2		
G SHALE	163.5		
F SHALE	170.5		
F SALT			
E CARBONATE	200.2		
D SALT/EQUIVALENT			
C SHALE	232.2		
B MARKER	239.4		
B EQUIVALENT			
B SALT			
B ANHYDRITE	252.5		
A2 CARBONATE	257.4		
A2 SALT			
A2 ANHYDRITE			
A1 CARBONATE	265.6		
A1 SALT			
A1 ANHYDRITE			
GUELPH	273.0		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER	340.0		
IRONDEQUOIT	358.3		
REYNALES/FOSSIL HILL	360.0		
THOROLD	362.0		
GRIMSBY	367.7		
CABOT HEAD	372.3		
MANITOULIN	392.2		
WHIRLPOOL			
QUEENSTON	395.6		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY: Debra K. Parker

CTY: Norfolk | TWP: Charlotteville | BLK | TRAC 4 | LOT 11 | CON A

WELL NAME: Metalore #72 Charlotteville 4-11-A | PERMIT 6541 | INIT CLASS NPW

OPERATOR: Metalore Resources Ltd. | TARGET CLI | CUR STATUS GP

DRILLING DATA

CONTRACTOR: Elgin Mitchell & Sons

RIG TYPE: CAB & ROT | DEPTHS

CABLE TOP | KB ELEV 222.3

BOT | LOGGER 396.2

ROTRY TOP | DRILLER 395.9

BOT | DEEP END

DRLG FLD: Dry | PLUG BK 391.4

DATES

PERMIT 1984-07-04

SPUD 1984-07

COMPTD 1984-07-26

OFFCNF 1985-07-26

WRKOVR

ABNDND

COORDINATES

NORTH m

SOUTH 585.1 m

EAST m

WEST 117.6 m

LAT 42-42-09

LONG 80-21-09

SAMPLES

TOP 90.0

BOT 395.9

TRAY 6967

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
385.9 – 386.2	.014	
386.2 – 386.8	.068	
386.8 – 387.7	.139	
387.7 – 388.6	.167	
388.6 – 388.9	.028	
392.3 – 392.9	.431	

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
140		385.6	CEM	
219		96.9	SHO	

COMPLETION DATA

GAS $10^3 m^3/d$

OIL m^3/d

SIP kPa

FORM

INTRVL m

m

m

PERF ☐ OPEN HOLE ☒

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
58.8 – 393.8	GRNL	Computalog
382.2 – 395.3	DENL	"
360.9 – 395.3	TMPL	"

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
100.0 –		SUL
126.8 –		SUL
315.5 –		SUL
94.5 –		FRE
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.3		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT			
DEVONIAN: HAMILTON			
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	87.2		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS			
DEVONIAN: AMHERSTBURG			
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC	142.3		
DEVONIAN: SPRINGVALE	157.9		
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS	165.5		
SILURIAN: G SHALE	183.8		
SILURIAN: F SHALE	189.6		
SILURIAN: F SALT			
SILURIAN: E CARBONATE	213.7		
SILURIAN: D SALT/EQUIVALENT	250.2		
SILURIAN: C SHALE	251.5		
SILURIAN: B MARKER	260.0		
SILURIAN: B EQUIVALENT			
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE	272.8		
SILURIAN: A2 CARBONATE	277.4		
SILURIAN: A2 SALT	288.3		
SILURIAN: A1 CARBONATE	289.9		
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH	292.6		
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/WIARTON			
SILURIAN: DECEW			
SILURIAN: ROCHESTER	358.7		
SILURIAN: IRONDEQUOIT			
SILURIAN: REYNALES/FOSSIL HILL	378.9		
SILURIAN: THOROLD	381.9		
SILURIAN: GRIMSBY	382.5		
SILURIAN: CABOT HEAD	391.7		
SILURIAN: MANITOULIN			
SILURIAN: WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
ORDOVICIAN: BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL PIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Norfolk | TWP: Houghton | BLK: | TRAC 5 | LOT 8 | CON ENR

WELL NAME: Hemlock #9 Houghton 5-8-ENR | PERMIT 6427 | INIT CLASS: NPW

OPERATOR: Hemlock Explorations Ltd. | TARGET CLI | CUR STATUS: GP

DRILLING DATA

CONTRACTOR:

RIG TYPE | DEPTHS

CABLE TOP 1.3 | KB ELEV 208.0

BOT 437.7 | LOGGER

ROTRY TOP | DRILLER

BOT | DEEP END

DRLG FLD: | PLUG BK

DATES

PERMIT 1984-01-06

SPUD:

COMPTD 1984-03-12

OFFCNF 1985-03-12

WRKOVR:

ABNDND

COORDINATES

NORTH: 152.6 m

SOUTH: m

EAST 462.4 m

WEST m

LAT 42-39-56

LONG 80-42-01

SAMPLES

TOP 92.2

BOT 429.0

TRAY 5711

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV

COMPLETION DATA

GAS $10^3 m^3/d$

OIL m^3/d

SIP kPa

FORM

INTRVL m

m

m

PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		
–		

REMARKS

Fault evident in Devonian aged rocks.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.3		
DEVONIAN: PORT LAMSTON			
DEVONIAN: KETTLE POINT			
DEVONIAN: HAMILTON			
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	93.6		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS	102.7		
DEVONIAN: AMHERSTBURG	132.6		
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC	152.7		
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS	~~167.3~~		
SILURIAN: G SHALE	169.8		
SILURIAN: F SHALE	175.9		
SILURIAN: F SALT			
SILURIAN: E CARBONATE	198.7		
SILURIAN: D SALT/EQUIVALENT			
SILURIAN: C SHALE	276.0		
SILURIAN: B MARKER	288.9		
SILURIAN: B EQUIVALENT			
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE	301.4		
SILURIAN: A2 CARBONATE	303.6		
SILURIAN: A2 SALT	320.0		
SILURIAN: A1 CARBONATE	323.1		
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH	326.7		
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/WIARTON			
SILURIAN: DECEW			
SILURIAN: ROCHESTER	401.7		
SILURIAN: IRONDEQUOIT	418.0		
SILURIAN: REYNALES/FOSSIL HILL	420.0		
SILURIAN: THOROLD	423.4		
SILURIAN: GRIMSBY			
SILURIAN: CABOT HEAD			
SILURIAN: MANITOULIN			
SILURIAN: WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
ORDOVICIAN: BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY: Debra K. Parker

CTY Norfolk TWP Houghton BLK TRAC 2 LOT 13 CON I
WELL NAME Beech Lane #1 Houghton 2-13-I PERMIT 6619 INIT CLASS NPW
OPERATOR Beech Lane Explorations TARGET CLI CUR STATUS GP

DRILLING DATA
CONTRACTOR Murray Rose Drilling Inc.
RIG TYPE CAB DEPTHS
CABLE TOP 1.0 KB ELEV 211.4
BOT 427.0 LOGGER
ROTRY TOP DRILLER 427.0
BOT DEEP END
DRLG FLD PLUG BK 417.6

DATES
PERMIT 1984-10-26
SPUD 1984-10-17
COMPTD 1984-12-21
OFFCNF 1985-12-21
WRKOVR
ABNDND

COORDINATES
NORTH m
SOUTH 69.9 m
EAST m
WEST 112.8 m
LAT 42-41-25
LONG 80-40-35

SAMPLES
TOP 83.5
BOT 427.0
TRAY 1636
1637

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
414.5 – 415.7		2827
415.7 – 416.4		
416.4 – 417.3		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		83.5	SHO	83.5
219		89.6	CEM	
114		414.2	CEM	

COMPLETION DATA
GAS 4.8 $10^3m^3/d$
OIL m^3/d
SIP 3516 kPa
FORM
INTRVL m
m
m
PERF OPEN HOLE ☒

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
88.4 –	73.2	SUL
92.0 –	11.0	SUL
103.3 –	6.4	SUL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	83.5		
	COLUMBUS			
	LUCAS	92.3		
	AMHERSTBURG	118.9		
	SYLVANIA			
	BOIS BLANC	140.5		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	176.5		
	G SHALE	195.1		
	F SHALE	198.4		
	F SALT			
	E CARBONATE	223.1		
	D SALT/EQUIVALENT	257.3		
	C SHALE	259.4		
	B MARKER	283.8		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	302.4		
	A2 CARBONATE	305.7		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	312.3		
	A1 CARBONATE	321.3		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	324.6		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	392.0		
	ROCHESTER	394.4		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	409.2		
	THOROLD	411.0		
	GRIMSBY	413.5		
	CABOT HEAD	418.5		
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY

CTY Norfolk TWP Middleton BLK TRAC 5 LOT 25 CON III STR
WELL NAME Fuchsia Middleton 5-25 - III STR PERMIT 6529 INIT CLASS DEV
OPERATOR Fernlea Flowers Limited TARGET CLI CUR STATUS GP

DRILLING DATA
CONTRACTOR Murray Rose Drilling Inc.
RIG TYPE CAB DEPTHS
CABLE TOP 1.3 KB ELEV 236.1
BOT 381.0 LOGGER
ROTRY TOP DRILLER 381.0
BOT DEEP END
DRLG FLD PLUG BK 370.0

DATES
PERMIT 1984-06-08
SPUD 1984-06-04
COMPTD 1984-07-06
OFFCNF 1984-08-06
WRKOVR
ABNDND

COORDINATES
NORTH 951.9 m
SOUTH m
EAST m
WEST 167.7 m
LAT 42-48-15
LONG 80-35-23

SAMPLES
TOP 69.0
BOT 381.0
TRAY 1167

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
367.5 –	SHOW	
367.5 – 368.1		4102
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		69.1	SHO	69.1
219		74.0	CEM	
114		367.0	CEM	

COMPLETION DATA
GAS $10^3m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☒

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
88.0 –	15.0	SUL
106.0 –	4.0	SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS	74.0		
	AMHERSTBURG	103.0		
	SYLVANIA			
	BOIS BLANC	122.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	152.6		
	G SHALE	163.0		
	F SHALE	170.0		
	F SALT			
	E CARBONATE	197.0		
	D SALT/EQUIVALENT			
	C SHALE	234.0		
	B MARKER	240.0		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	255.0		
	A2 CARBONATE	259.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	260.5		
	A1 CARBONATE	263.0		
	A1 SALT			
	A1 ANHYDRITE	270.2		
	GUELPH	278.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	347.0		
	IRONDEQUOIT	363.0		
	REYNALES/FOSSIL HILL			
	THOROLD	367.0		
	GRIMSBY	369.0		
	CABOT HEAD	374.0		
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY

CTY Norfolk TWP Middleton BLK TRAC 8 LOT 26 CON II STR
WELL NAME Easter Lily Middleton 8-26-II-STR PERMIT 6461 INIT CLASS NPW
OPERATOR Fernlea Flowers Limited TARGET CLI CUR STATUS GP

DRILLING DATA

CONTRACTOR Murray Rose Drilling Inc.
RIG TYPE CAB DEPTHS
CABLE TOP 1.3 KB ELEV 235.8
BOT 374.9 LOGGER
ROTRY TOP DRILLER 374.9
BOT DEEP END
DRLG FLD PLUG BK 366.3

DATES

PERMIT 1984-04-30
SPUD 1984-04-30
COMPTD 1984-05-28
OFFCNF 1985-05-28
WRKOVR
ABNDND

COORDINATES

NORTH 79.5 m
SOUTH m
EAST 110.7 m
WEST m
LAT 42-48-51
LONG 80-35-35

SAMPLES

TOP 65.8
BOT 375.0
TRAY 20

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
363.9 –	SHOW	
363.9 – 364.2	1.5	
364.2 – 365.7	1.7	4137
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		65.8	SHO	65.8
219		71.9	CEM	
114		362.0	CEM	

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☑

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
66.2–	24.0	SUL
79.1–	18.0	SUL
274.0–	3.0	SUL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.9		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE			
COLUMBUS			
LUCAS			
AMHERSTBURG	96.2		
SYLVANIA			
BOIS BLANC	124.5		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	147.0		
G SHALE	157.0		
F SHALE	165.2		
F SALT			
E CARBONATE	196.2		
D SALT/EQUIVALENT			
C SHALE	222.4		
B MARKER	239.0		
B EQUIVALENT			
B SALT			
B ANHYDRITE	246.0		
A2 CARBONATE	249.7		
A2 SALT			
A2 ANHYDRITE	262.2		
A1 CARBONATE	264.2		
A1 SALT			
A1 ANHYDRITE			
SILURIAN: GUELPH	269.7		
ERAMOSA			
GOAT ISLAND			
GASPORT/MARTON			
DECEW			
ROCHESTER	344.0		
IRONDEQUOIT			
REYNALES/FOSSIL HILL	360.2		
THOROLD	363.3		
GRIMSBY	366.0		
CABOT HEAD			
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Norfolk TWP Middleton BLK TRAC 7 LOT 26 CON III STR
WELL NAME Poinsettia Middleton 7-26-III STR PERMIT 6457 INIT CLASS NPW
OPERATOR Fernlea Flowers Limited TARGET CLI CUR STATUS GP

DRILLING DATA

CONTRACTOR Murray Rose Drilling Inc.
RIG TYPE CAB DEPTHS
CABLE TOP 1.0 KB ELEV 234.0
BOT 409.3 LOGGER
ROTRY TOP DRILLER 409.3
BOT DEEP END
DRLG FLD PLUG BK 373.9

DATES

PERMIT 1984-03-19
SPUD 1984-03-20
COMPTD 1984-04-23
OFFCNF 1985-04-23
WRKOVR
ABNDND

COORDINATES

NORTH 337.8 m
SOUTH m
EAST 107.1 m
WEST m
LAT 42-48-01
LONG 80-34-55

SAMPLES

TOP 69.2
BOT 409.3
TRAY 202

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
370.6 –	SHOW	
372.4 –		3999
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		227.0	SHO	227.0
219		251.0	CEM	
114		370.0	CEM	

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☑

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
232.0 –	46.0	FRE
262.0 –	30.0	SUL
410.0 –	27.0	SUL
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.0		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE			
COLUMBUS			
LUCAS			
AMHERSTBURG	96.9		
SYLVANIA			
BOIS BLANC	118.9		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	152.0		
G SHALE	159.0		
F SHALE	167.9		
F SALT			
E CARBONATE	197.9		
D SALT/EQUIVALENT			
C SHALE	229.0		
B MARKER	241.0		
B EQUIVALENT			
B SALT			
B ANHYDRITE	256.0		
A2 CARBONATE	259.2		
A2 SALT			
A2 ANHYDRITE	271.9		
A1 CARBONATE	272.2		
A1 SALT			
A1 ANHYDRITE			
SILURIAN: GUELPH	278.4		
ERAMOSA			
GOAT ISLAND			
GASPORT/MARTON			
DECEW			
ROCHESTER	347.5		
IRONDEQUOIT	365.0		
REYNALES/FOSSIL HILL			
THOROLD	373.3		
GRIMSBY	375.8		
CABOT HEAD	382.5		
MANITOULIN	397.9		
WHIRLPOOL	403.0		
ORDOVICIAN: QUEENSTON	409.0		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Norfolk TWP Middleton BLK TRAC 1 LOT 26 CON IV STR
WELL NAME Petunia Middleton 26-IV-STR PERMIT 6562 INIT CLASS NPW
OPERATOR Fernlea Flowers Ltd. TARGET CLI CUR STATUS GS-Abd

DRILLING DATA
CONTRACTOR Murray Rose Drilling Inc.
RIG TYPE CAB DEPTHS
CABLE TOP 1.3 KB ELEV 234.1
BOT 390.0 LOGGER
ROTRY TOP DRILLER 390.0
BOT DEEP END
DRLG FLD PLUG BK 376.0

DATES
PERMIT 1984-07-25
SPUD 1984-07-26
COMPTD 1984-08-24
OFFCNF 1985-08-24
WRKOVR
ABNDND 1985-02-12

COORDINATES
NORTH m
SOUTH 99.0 m
EAST m
WEST 188.2 m
LAT 42-47-46
LONG 80-34-38

SAMPLES
TOP 70.0
BOT 388.3
TRAY 8119

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
374.0 –	Show	689
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		70.1	SHO	70.1
219		75.8	BAR	
114		367.5	CEM	

COMPLETION DATA
GAS 3.5 $10^3 m^3/d$
OIL m^3/d
SIP 420.6 kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☐
REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
82.0 –	31.0	SUL
294.0 –	10.0	SUL
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–		
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CORING RECORD

INTERVAL	LOCATION	NO	ANN
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GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.3		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT			
DEVONIAN: HAMILTON			
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE			
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS			
DEVONIAN: AMHERSTBURG	103.7		
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC	125.5		
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS	155.0		
SILURIAN: G SHALE	168.0		
SILURIAN: F SHALE	174.7		
SILURIAN: F SALT			
SILURIAN: E CARBONATE	199.7		
SILURIAN: D SALT/EQUIVALENT	233.5		
SILURIAN: C SHALE	235.7		
SILURIAN: B MARKER			
SILURIAN: B EQUIVALENT			
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE	256.7		
SILURIAN: A2 CARBONATE	261.2		
SILURIAN: A2 SALT			
SILURIAN: A2 ANHYDRITE	276.0		
SILURIAN: A1 CARBONATE	278.0		
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH	283.0		
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/WIARTON			
SILURIAN: DECEW			
SILURIAN: ROCHESTER	353.7		
SILURIAN: IRONDEQUOIT			
SILURIAN: REYNALES/FOSSIL HILL	367.7		
SILURIAN: THOROLD	372.8		
SILURIAN: GRIMSBY	374.0		
SILURIAN: CABOT HEAD	376.0		
SILURIAN: MANITOULIN			
SILURIAN: WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
ORDOVICIAN: BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Norfolk TWP Middleton BLK TRAC 7 LOT 27 CON II STR
WELL NAME Red Hot Sally Middleton 7-27-II STR PERMIT 6584 INIT CLASS NPW
OPERATOR Fernlea Flowers Ltd. TARGET CLI CUR STATUS GP

DRILLING DATA
CONTRACTOR Murray Rose Drilling Inc.
RIG TYPE CAB DEPTHS
CABLE TOP 1.0 KB ELEV 235.8
BOT 375.0 LOGGER
ROTRY TOP DRILLER 375.0
BOT DEEP END
DRLG FLD PLUG BK 362.0

DATES
PERMIT 1984-09-10
SPUD 1984-09-06
COMPTD 1984-10-05
OFFCNF 1985-10-05
WRKOVR
ABNDND

COORDINATES
NORTH 343.5 m
SOUTH m
EAST m
WEST 129.1 m
LAT 42-49-02
LONG 80-35-19

SAMPLES
TOP 64.6
BOT 374.9
TRAY 6797

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
360.0 –	Show	
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		64.6	SHO	64.6
219		67.0	BAR	
114		359.0	CEM	

COMPLETION DATA
GAS 3.12 $10^3 m^3/d$
OIL m^3/d
SIP 4275 kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☐
REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
65.0 –	12.0	SUL
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CORING RECORD

INTERVAL	LOCATION	NO	ANN
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GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL			
DRIFT / LAKE BOTTOM			
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT			
DEVONIAN: HAMILTON			
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE			
DEVONIAN: COLUMBUS	68.5		
DEVONIAN: LUCAS			
DEVONIAN: AMHERSTBURG	92.0		
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC	114.0		
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS	142.5		
SILURIAN: G SHALE	157.0		
SILURIAN: F SHALE	162.0		
SILURIAN: F SALT			
SILURIAN: E CARBONATE	187.0		
SILURIAN: D SALT/EQUIVALENT			
SILURIAN: C SHALE	223.0		
SILURIAN: B MARKER	230.0		
SILURIAN: B EQUIVALENT			
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE	243.0		
SILURIAN: A2 CARBONATE	247.0		
SILURIAN: A2 SALT			
SILURIAN: A2 ANHYDRITE	255.0		
SILURIAN: A1 CARBONATE	260.0		
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH	264.0		
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/WIARTON			
SILURIAN: DECEW	339.0		
SILURIAN: ROCHESTER	343.0		
SILURIAN: IRONDEQUOIT	358.0		
SILURIAN: REYNALES/FOSSIL HILL			
SILURIAN: THOROLD	360.0		
SILURIAN: GRIMSBY	361.0		
SILURIAN: CABOT HEAD	364.0		
SILURIAN: MANITOULIN			
SILURIAN: WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
ORDOVICIAN: BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Norfolk TWP North Walsingham BLK TRAC 4 LOT 17 CON VII
WELL NAME F & M #5 N. Walsingham 4-17-VII PERMIT 6416 INIT CLASS DEV
OPERATOR Francis Saul TARGET CL1 CUR STATUS GP

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Murray Rose Drilling Inc.			PERMIT	83-12-16	NORTH	790.8	m	TOP	75.9
RIG TYPE	CAB	DEPTHS		SPUD	83-12-	SOUTH		m	BOT	392.9
CABLE TOP	1.0	KB ELEV	207.2	COMPTD	84-01-25	EAST		m	TRAY	6677
BOT	393.0	LOGGER		OFFCNF	84-02-25	WEST	186.8	m		
ROTRY TOP		DRILLER	393.0	WRKOVR		LAT	42-42-21			
BOT		DEEP END		ABNDND		LONG	80-30-31			
DRLG FLD		PLUG BK	388.9							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
383.1 – 385.0		4275
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		67.1	SHO	67.1
219		74.4	BAR	
114		381.0	BHP	

COMPLETION DATA

GAS 10³m³/d
OIL m³/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
68.9 –	18.3	SUL
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CORING RECORD

INTERVAL	LOCATION	NO	ANAL
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GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.0		
PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE			
COLUMBUS			
LUCAS	76.0		
AMHERSTBURG	108.2		
SYLVANIA			
BOIS BLANC	126.8		
SPRINGVALE			
ORISKANY			
BASS ISLANDS	164.8		
G SHALE			
F SHALE	181.4		
F SALT	191.0		
E CARBONATE	213.7		
D SALT/EQUIVALENT	245.0		
C SHALE	249.1		
B MARKER	258.8		
B EQUIVALENT	262.4		
B SALT			
B ANHYDRITE	270.0		
A2 CARBONATE	277.4		
A2 SALT			
A2 ANHYDRITE	286.8		
A1 CARBONATE	289.6		
A1 SALT			
A1 ANHYDRITE			
GUELPH	291.7		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER	359.7		
IRONDEQUOIT	378.0		
REYNALES/FOSSIL HILL	379.2		
THOROLD	383.1		
GRIMSBY			
CABOT HEAD	388.6		
MANITOULIN			
WHIRLPOOL			
QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Norfolk TWP N. Walsingham BLK TRAC 2 LOT 18 CON VII
WELL NAME F & M #6 N. Walsingham 2-18-VII PERMIT 6613 INIT CLASS DEV
OPERATOR Francis Saul TARGET CLI CUR STATUS GP

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Murray Rose Drilling Inc.			PERMIT	1984-10-11	NORTH:		m	TOP:	65.5
RIG TYPE	CAB	DEPTHS		SPUD	1984-10-03	SOUTH:	207.2	m	BOT:	391.7
CABLE TOP	1.0	KB ELEV	205.6	COMPTD	1984-11-12	EAST:		m	TRAY:	957
BOT	391.7	LOGGER		OFFCNF	1984-12-12	WEST:	433.4	m		
ROTRY TOP		DRILLER	391.7	WRKOVR:		LAT:	42-42-36			
BOT		DEEP END		ABNDND:		LONG:	80-30-28			
DRLG FLD		PLUG BK:	383.7							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
381.0 – 381.9	.03	
381.9 – 382.8	.67	
382.8 – 383.7	.76	4413
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		65.5	SHO	65.5
219		71.0	CEM	
114		381.9	CEM	

COMPLETION DATA

GAS: 10³m³/d
OIL: m³/d
SIP: 4413 kPa
FORM: Grimsby
INTRVL: 381.9-383.7 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
70.4 –	12.2	SUL
125.0 –	11.0	SUL
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CORING RECORD

INTERVAL	LOCATION	NO	ANAL
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–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	0		
DRIFT / LAKE BOTTOM	1.0		
PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE			
COLUMBUS			
LUCAS			
AMHERSTBURG	107.6		
SYLVANIA			
BOIS BLANC	146.0		
SPRINGVALE			
ORISKANY			
BASS ISLANDS	160.9		
G SHALE	180.0		
F SHALE	187.1		
F SALT			
E CARBONATE	210.2		
D SALT/EQUIVALENT	243.5		
C SHALE	244.8		
B MARKER			
B EQUIVALENT	260.8		
B SALT			
B ANHYDRITE	269.1		
A2 CARBONATE	273.4		
A2 SALT			
A2 ANHYDRITE			
A1 CARBONATE	284.4		
A1 SALT			
A1 ANHYDRITE			
GUELPH	290.8		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER	359.4		
IRONDEQUOIT			
REYNALES/FOSSIL HILL	377.2		
THOROLD	379.9		
GRIMSBY	380.1		
CABOT HEAD	389.5		
MANITOULIN			
WHIRLPOOL			
QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Norfolk TWP N. Walsingham BLK TRAC 4 LOT 18 CON VII
WELL NAME P & H #7 N. Walsingham 4-18-VII PERMIT 6635 INIT CLASS NPW
OPERATOR Francis Saul TARGET CLI CUR STATUS GP

DRILLING DATA
CONTRACTOR Murray Rose Drilling Inc.
RIG TYPE CAB DEPTHS
CABLE TOP 1.3 KB ELEV 209.3
BOT 397.2 LOGGER
ROTRY TOP DRILLER 397.2
BOT DEEP END
DRLG FLD PLUG BK 388.0

DATES
PERMIT 1984-11-23
SPUD 1984-11-17
COMPTD 1984-12-18
OFFCNF 1985-12-18
WRKOVR
ABNDND

COORDINATES
NORTH m
SOUTH 582.5 m
EAST m
WEST 125.4 m
LAT 42-34-56
LONG 80-35-18

SAMPLES
TOP 72.5
BOT 394.7
TRAY 1017

INITIAL GAS RECORD

INTERVAL		FLOW	SIP
381.9 –	382.8	1.56	
382.8 –	383.4	33.8	4413
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		72.5	SHO	72.5
219		77.7	CEM	
114		385.0	CEM	

COMPLETION DATA
GAS $10^3m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL		FLOW	DENSITY
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LOGGING RECORD

INTERVAL		TYPE	COMPANY
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REMARKS

INITIAL WATER RECORD

INTERVAL		STAT LEV	TYPE
71.3 –		22.9	SUL
125.0 –		13.7	SUL
323.7 –			BRA
–			
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–			

CORING RECORD

INTERVAL		LOCATION	NO	ANAL
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.3		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT			
DEVONIAN	HAMILTON			
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE			
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS	76.2		
DEVONIAN	AMHERSTBURG	108.2		
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	128.0		
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY			
SILURIAN	BASS ISLANDS	161.2		
SILURIAN	G SHALE	177.1		
SILURIAN	F SHALE	181.4		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	209.1		
SILURIAN	D SALT/EQUIVALENT			
SILURIAN	C SHALE	237.1		
SILURIAN	B MARKER			
SILURIAN	B EQUIVALENT			
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE	268.0		
SILURIAN	A2 CARBONATE	271.0		
SILURIAN	A2 SALT			
	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
SILURIAN	A1 ANHYDRITE			
SILURIAN	GUELPH	294.7		
SILURIAN	ERAMOSA			
SILURIAN	GOAT ISLAND			
SILURIAN	GASPORT/WIARTON			
SILURIAN	DECEW			
SILURIAN	ROCHESTER	365.2		
SILURIAN	IRONDEQUOIT			
SILURIAN	REYNALES/FOSSIL HILL	377.8		
SILURIAN	THOROLD			
SILURIAN	GRIMSBY	381.0		
SILURIAN	CABOT HEAD	388.3		
SILURIAN	MANITOULIN			
SILURIAN	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
ORDOVICIAN	BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG			
ORDOVICIAN	VERULAM			
ORDOVICIAN	KIRKFIELD			
ORDOVICIAN	COBOCONK			
ORDOVICIAN	GULL R'VER			
ORDOVICIAN	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY

CTY Welland TWP Crowland BLK TRAC 4 LOT 9 CON V
WELL NAME Berardocco #1A Crowland 9-V PERMIT 6321 INIT CLASS DEV.
OPERATOR Lelio, Romolo and Remo Berardocco TARGET CLI CUR STATUS GP

DRILLING DATA
CONTRACTOR
RIG TYPE DEPTHS
CABLE TOP KB ELEV 209.4
BOT LOGGER
ROTRY TOP DRILLER 189.0
BOT DEEP END
DRLG FLD PLUG BK

DATES
PERMIT 1983-08-17
SPUD
COMPTD 1984-01-17
OFFCNF 1984-02-17
WRKOVR
ABNDND

COORDINATES
NORTH 108.2 m
SOUTH m
EAST 106.7 m
WEST m
LAT 42-49-07
LONG 79-10-05

SAMPLES
TOP 61.0
BOT 207.0
TRAY 70

INITIAL GAS RECORD

INTERVAL		FLOW	SIP
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–			

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV

COMPLETION DATA
GAS $10^3m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL		FLOW	DENSITY
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LOGGING RECORD

INTERVAL		TYPE	COMPANY
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REMARKS

INITIAL WATER RECORD

INTERVAL		STAT LEV	TYPE
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CORING RECORD

INTERVAL		LOCATION	NO	ANAL
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.6		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT			
DEVONIAN	HAMILTON			
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE			
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS			
DEVONIAN	AMHERSTBURG			
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC			
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY			
SILURIAN	BASS ISLANDS			
SILURIAN	G SHALE			
SILURIAN	F SHALE			
SILURIAN	F SALT			
SILURIAN	E CARBONATE			
SILURIAN	D SALT/EQUIVALENT			
SILURIAN	C SHALE			
SILURIAN	B MARKER			
SILURIAN	B EQUIVALENT			
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE			
SILURIAN	A2 CARBONATE			
SILURIAN	A2 SALT			
	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
SILURIAN	A1 ANHYDRITE			
SILURIAN	GUELPH			
SILURIAN	ERAMOSA			
SILURIAN	GOAT ISLAND			
SILURIAN	GASPORT/WIARTON			
SILURIAN	DECEW			
SILURIAN	ROCHESTER			
SILURIAN	IRONDEQUOIT			
SILURIAN	REYNALES/FOSSIL HILL			
SILURIAN	THOROLD			
SILURIAN	GRIMSBY			
SILURIAN	CABOT HEAD			
SILURIAN	MANITOULIN			
SILURIAN	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
ORDOVICIAN	BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG			
ORDOVICIAN	VERULAM			
ORDOVICIAN	KIRKFIELD			
ORDOVICIAN	COBOCONK			
ORDOVICIAN	GULL RIVER			
ORDOVICIAN	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY: Wentworth TWP: Binbrook BLK: TRAC: 7 LOT: 5 BL 2 CON: IV

WELL NAME: Furlane #1 Binbrook 7-5 BL2 IV PERMIT: 6601 INIT CLASS: DEV

OPERATOR: TARGET: CLI CUR STATUS: GP

DRILLING DATA				DATES		COORDINATES			SAMPLES
CONTRACTOR		DEPTHS		PERMIT	1984-09-25	NORTH	140.2	m	TOP 20.0
RIG TYPE		KB ELEV	206.0	SPUD		SOUTH		m	BOT 141.7
CABLE TOP		LOGGER		COMPTD	1984-10-12	EAST	140.2	m	TRAY 95
BOT		DRILLER	141.7	OFFCNF		WEST		m	
ROTRY TOP		DEEP END		WRKOVR		LAT	43-06-00		
BOT		PLUG BK		ABNOND		LONG	79-47-07		
DRLG FLD									

INITIAL GAS RECORD			CASING AND TUBING RECORD					COMPLETION DATA	
INTERVAL	FLOW	SIP	DIAM	WEIGHT	SET AT	HOW SET	RECOV	GAS	$10^3 m^3/d$
–								OIL	m^3/d
–								SIP	kPa
–								FORM	
–								INTRVL	m
–									m
–									m

INITIAL OIL RECORD			LOGGING RECORD			COMPLETION DATA
INTERVAL	FLOW	DENSITY	INTERVAL	TYPE	COMPANY	PERF ☐ OPEN HOLE ☐
–			–			REMARKS
–			–			
–			–			
–			–			
–			–			

INITIAL WATER RECORD			CORING RECORD			
INTERVAL	STAT LEV	TYPE	INTERVAL	LOCATION	NO	mm
–			–			
–			–			
–			–			
–			–			
–			–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL			
	DRIFT / LAKE BOTTOM			
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT			
DEVONIAN	HAMILTON			
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE			
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS			
DEVONIAN	AMHERSTBURG			
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC			
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY			
SILURIAN	BASS ISLANDS			
SILURIAN	G SHALE			
SILURIAN	F SHALE			
SILURIAN	F SALT			
SILURIAN	E CARBONATE			
SILURIAN	D SALT/EQUIVALENT			
SILURIAN	C SHALE			
SILURIAN	B MARKER			
SILURIAN	B EQUIVALENT			
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE			
SILURIAN	A2 CARBONATE			
SILURIAN	A2 SALT			

SILURIAN	A2 ANHYDRITE		
SILURIAN	A1 CARBONATE		
SILURIAN	A1 SALT		
SILURIAN	A1 ANHYDRITE		
SILURIAN	GUELPH		
SILURIAN	ERAMOSA		
SILURIAN	GOAT ISLAND		
SILURIAN	GASPORT/WARTON		
SILURIAN	DECEW		
SILURIAN	ROCHESTER	85.0	
SILURIAN	IRONDEQUOIT		
SILURIAN	REYNALES/FOSSIL HILL	96.1	
SILURIAN	THOROLD	97.0	
SILURIAN	GRIMSBY	100.0	
SILURIAN	CABOT HEAD	110.2	
SILURIAN	MANITOULIN		
SILURIAN	WHIRLPOOL	128.0	
ORDOVICIAN	QUEENSTON	134.0	
ORDOVICIAN	BLUE MOUNTAIN - GEORG. BAY		
ORDOVICIAN	COLLINGWOOD		
ORDOVICIAN	COBOURG		
ORDOVICIAN	VERULAM		
ORDOVICIAN	KIRKFIELD		
ORDOVICIAN	COBOCONK		
ORDOVICIAN	GULL RIVER		
ORDOVICIAN	SHADOW LAKE		
CAMBRIAN	CAMBRIAN		
PRECAMBRIAN	PRECAMBRIAN		

GEOLOGY BY

CTY: Haldimand TWP: Lake Erie BLK: 18 TRAC: F LOT: CON:

WELL NAME: Place Rainham LE 18-F PERMIT: 6531 INIT CLASS: DEV

OPERATOR: Place Gas & Oil Company Ltd. TARGET: CLI CUR STATUS: GP

DRILLING DATA				DATES		COORDINATES			SAMPLES
CONTRACTOR	Place Gas & Oil Company Ltd.	DEPTHS		PERMIT	1984-06-25	NORTH		m	TOP 22.9
RIG TYPE	CAB	KB ELEV	179.0	SPUD	1984-06-12	SOUTH		m	BOT 273.4
CABLE TOP	4.3	LOGGER		COMPTD	1984-07-19	EAST		m	TRAY 59
BOT	273.4	DRILLER	273.4	OFFCNF	1984-08-19	WEST		m	
ROTRY TOP		DEEP END		WRKOVR		LAT	42-48-09		
BOT		PLUG BK		ABNOND		LONG	79-54-26		
DRLG FLD									

INITIAL GAS RECORD			CASING AND TUBING RECORD					COMPLETION DATA	
INTERVAL	FLOW	SIP	DIAM	WEIGHT	SET AT	HOW SET	RECOV	GAS 6.3	$10^3 m^3/d$
244.1 – 245.4	.14		203		12.8		11.9	OIL	m^3/d
256.3 – 257.3	4.28		114		222.8	PAC	11.9	SIP 2103	kPa
258.8 – 259.4	67.4	2103	25		253.0			FORM	
–								INTRVL 258.8 – 259.4	m
–									m
–									m

INITIAL OIL RECORD			LOGGING RECORD			COMPLETION DATA
INTERVAL	FLOW	DENSITY	INTERVAL	TYPE	COMPANY	PERF ☐ OPEN HOLE ☒
–			–			REMARKS
–			–			
–			–			
–			–			
–			–			

INITIAL WATER RECORD			CORING RECORD			
INTERVAL	STAT LEV	TYPE	INTERVAL	LOCATION	NO	mm
–			–			
–			–			
–			–			
–			–			
–			–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	4.3		
	DRIFT / LAKE BOTTOM	11.9		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT			
DEVONIAN	HAMILTON			
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE			
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS			
DEVONIAN	AMHERSTBURG			
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC			
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY			
SILURIAN	BASS ISLANDS	34.3		
SILURIAN	G SHALE	45.8		
SILURIAN	F SHALE	52.7		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	93.4		
SILURIAN	D SALT/EQUIVALENT			
SILURIAN	C SHALE	105.7		
SILURIAN	B MARKER	112.0		
SILURIAN	B EQUIVALENT			
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE	130.1		
SILURIAN	A2 CARBONATE	138.1		
SILURIAN	A2 SALT			

SILURIAN	A2 ANHYDRITE		
SILURIAN	A1 CARBONATE		
SILURIAN	A1 SALT		
SILURIAN	A1 ANHYDRITE		
SILURIAN	GUELPH	144.2	
SILURIAN	ERAMOSA		
SILURIAN	GOAT ISLAND		
SILURIAN	GASPORT/WARTON		
SILURIAN	DECEW	214.3	
SILURIAN	ROCHESTER	225.9	
SILURIAN	IRONDEQUOIT	242.0	
SILURIAN	REYNALES/FOSSIL HILL	245.4	
SILURIAN	THOROLD	246.9	
SILURIAN	GRIMSBY	249.9	
SILURIAN	CABOT HEAD	263.4	
SILURIAN	MANITOULIN		
SILURIAN	WHIRLPOOL		
ORDOVICIAN	QUEENSTON		
ORDOVICIAN	BLUE MOUNTAIN - GEORG. BAY		
ORDOVICIAN	COLLINGWOOD		
ORDOVICIAN	COBOURG		
ORDOVICIAN	VERULAM		
ORDOVICIAN	KIRKFIELD		
ORDOVICIAN	COBOCONK		
ORDOVICIAN	GULL RIVER		
ORDOVICIAN	SHADOW LAKE		
CAMBRIAN	CAMBRIAN		
PRECAMBRIAN	PRECAMBRIAN		

GEOLOGY BY

CTY Haldimand TWP Lake Erie BLK 18 TRAC C LOT CON
WELL NAME Place Rainham L.E. 18-C PERMIT 6532 INIT CLASS DEV
OPERATOR Place Gas & Oil Co. Ltd. TARGET CLI CUR STATUS GP

DRILLING DATA

CONTRACTOR Place Gas & Oil Co. Ltd.
RIG TYPE CAB DEPTHS
CABLE TOP 4.0 KB ELEV 178.6
BOT 271.6 LOGGER
ROTRY TOP DRILLER 271.6
BOT DEEP END
DRLG FLD PLUG BK

DATES

PERMIT 1984-07-26
SPUD 1984-07-24
COMPTD 1984-08-28
OFFCNF 1984-09-28
WRKOVR
ABNDND

COORDINATES

NORTH m
SOUTH m
EAST m
WEST m
LAT 42-48-8.8
LONG 79-53-28.1

SAMPLES

TOP 11.0
BOT 271.6
TRAY 62

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
246.9 – 250.9	2.0	
250.9 – 253.9	2.4	
253.9 – 254.5	3.1	
257.6 – 259.1	7.9	

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
203		10.7		10.7
114		241.1	BHP	10.4
25		259.4		

COMPLETION DATA

GAS 7.9 $10^3 m^3/d$
OIL m^3/d
SIP 2275 kPa
FORM
INTRVL m
m
m
PERF OPEN HOLE X

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE

CORING RECORD

INTERVAL	LOCATION	NO	mm

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	4.0		
DRIFT / LAKE BOTTOM	11.0		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE			
COLUMBUS			
LUCAS			
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	33.5		
G SHALE	43.1		
F SHALE	52.2		
F SALT			
E CARBONATE	71.3		
D SALT/EQUIVALENT			
C SHALE	105.0		
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE	123.1		
A2 CARBONATE	135.4		
A2 SALT			
SILURIAN: A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH	151.8		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW	208.5		
ROCHESTER	214.6		
IRONDEQUOIT	241.1		
REYNALES/FOSSIL HILL	245.6		
THOROLD	246.0		
GRIMSBY	251.1		
CABOT HEAD	263.9		
MANITOULIN			
WHIRLPOOL			
ORDOVICIAN: QUEENSTON			
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Haldimand TWP Lake Erie BLK 19 TRAC T LOT CON
WELL NAME Pembina #4 LE - 19-T PERMIT 6495 INIT CLASS DEV
OPERATOR Pembina Exploration Co. Ltd. TARGET CLI CUR STATUS GP

DRILLING DATA

CONTRACTOR Underwater Gas Developers Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 181.2
BOT LOGGER 335.9
ROTRY TOP 28.6 DRILLER 336.0
BOT 336.0 DEEP END
DRLG FLD Gel Chem & Barite PLUG BK 322.5

DATES

PERMIT 1984-05-04
SPUD 1984-05-25
COMPTD 1984-05-27
OFFCNF 1984-06-27
WRKOVR
ABNDND

COORDINATES

NORTH m
SOUTH m
EAST m
WEST m
LAT 42-46-12
LONG 79-45-16

SAMPLES

TOP 48.0
BOT 336.0
TRAY 5

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
282.0 –	SHOW	
275.0 – 285.0	.355	4420

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	47.5	CEM	
178	25.0	105.0	CEM	
114	14.0	333.3	CEM	
60	5.0	2 71.5	HAN	

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF X OPEN HOLE

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY
45.5 – 319.0	CBLK	Schlumberger
233.0 – 322.2	CMPL	"
103.0 – 333.2	DLLM	"
24.5 – 319.2	CNFD	"

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE

CORING RECORD

INTERVAL	LOCATION	NO	mm

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.5		
DRIFT / LAKE BOTTOM	28.6		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE			
COLUMBUS			
LUCAS			
AMHERSTBURG	35.5		
SYLVANIA			
BOIS BLANC	49.5		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	72.8		
G SHALE	76.0		
F SHALE	81.0		
F SALT			
E CARBONATE	101.3		
D SALT/EQUIVALENT			
C SHALE	140.7		
B MARKER	150.3		
B EQUIVALENT			
B SALT			
B ANHYDRITE	164.7		
A2 CARBONATE	168.5		
A2 SALT			
SILURIAN: A2 ANHYDRITE	183.0		
A1 CARBONATE	183.8		
A1 SALT			
A1 ANHYDRITE			
GUELPH	185.5		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW	239.4		
ROCHESTER	255.8		
IRONDEQUOIT	270.3		
REYNALES/FOSSIL HILL	273.0		
THOROLD	274.4		
GRIMSBY	277.8		
CABOT HEAD	291.2		
MANITOULIN			
WHIRLPOOL	312.0		
ORDOVICIAN: QUEENSTON	314.4		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Haldimand TWP Lake Erie BLK 21 TRAC X LOT CON

WELL NAME Pembina #1 LE 21-X PERMIT 6496 INIT CLASS DEV

OPERATOR Pembina Exploration Co. Ltd. TARGET CLI CUR STATUS GS-ABD

DRILLING DATA			DATES		COORDINATES		SAMPLES	
CONTRACTOR	Pembina Drilling Co. Ltd.		PERMIT	1984-05-04	NORTH	m	TOP	65.0
RIG TYPE	ROT	DEPTHS	SPUD	1984-07-08	SOUTH	m	BOT	342.0
CABLE TOP		KB ELEV 180.6	COMPTD	1984-07-12	EAST	m	TRAY	97
BOT		LOGGER 343.4	OFFCNF	1984-08-12	WEST	m		
ROTRY TOP	30.8	DRILLER 342.5	WRKOVR		LAT	42-45-41		
BOT	343.5	DEEP END	ABNDND	1984-07-12	LONG	79-38-18		
DRLG FLD	Gel Chem	PLUG BK						

INITIAL GAS RECORD			CASING AND TUBING RECORD					COMPLETION DATA
INTERVAL	FLOW	SIP	DIAM	WEIGHT	SET AT	HOW SET	RECOV	GAS $10^3 m^3/d$
65.0 –	SHOW		340	71.4	62.9	CEM		OIL m^3/d
117.0 –	SHOW		194	39.3	113.3	CEM		SIP kPa
182.0 –	SHOW							FORM
282.0 – 299.0	0.188	4064						INTRVL m
–								m
–								m

INITIAL OIL RECORD			LOGGING RECORD			PERF ☐	OPEN HOLE ☐
INTERVAL	FLOW	DENSITY	INTERVAL	TYPE	COMPANY	REMARKS	
–			25.5 – 326.5	CNFD	Schlumberger		
–			110.5 – 340.8	DLLM	"		
–			–				
–			–				
–			–				
–			–				

INITIAL WATER RECORD			CORING RECORD			
INTERVAL	STAT LEV	TYPE	INTERVAL	LOCATION	NO	Abn
182.0 –		SUL	–			
–			–			
–			–			
–			–			
–			–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	5.9		
	DRIFT / LAKE BOTTOM	30.8		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT			
DEVONIAN	HAMILTON			
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE			
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS			
DEVONIAN	AMHERSTBURG	43.3		
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	57.8		
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY			
SILURIAN	BASS ISLANDS	71.4		
SILURIAN	G SHALE	80.2		
SILURIAN	F SHALE	84.8		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	113.9		
SILURIAN	D SALT/EQUIVALENT	144.5		
SILURIAN	C SHALE	145.5		
SILURIAN	B MARKER	154.3		
SILURIAN	B EQUIVALENT			
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE	168.2		
SILURIAN	A2 CARBONATE	173.0		
SILURIAN	A2 SALT			
SILURIAN	A2 ANHYDRITE	174.4		
SILURIAN	A1 CARBONATE	176.0		
SILURIAN	A1 SALT			
SILURIAN	A1 ANHYDRITE	186.4		
SILURIAN	GUELPH	188.7		
SILURIAN	ERAMOSA			
SILURIAN	GOAT ISLAND			
SILURIAN	GASPORT/WIARTON			
SILURIAN	DECEW	244.7		
SILURIAN	ROCHESTER	260.2		
SILURIAN	IRONDEQUOIT	276.6		
SILURIAN	REYNALES/FOSSIL HILL	278.5		
SILURIAN	THOROLD	280.0		
SILURIAN	GRIMSBY	282.2		
SILURIAN	CABOT HEAD	304.7		
SILURIAN	MANITOULIN			
ORDOVICIAN	WHIRLPOOL	319.0		
ORDOVICIAN	QUEENSTON	321.6		
ORDOVICIAN	BLUE MOUNTAIN - GEORG. BAY			
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG			
ORDOVICIAN	VERULAM			
ORDOVICIAN	KIRKFIELD			
ORDOVICIAN	COBOCONK			
ORDOVICIAN	GULL RIVER			
ORDOVICIAN	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY

CTY Haldimand TWP Lake Erie BLK 38 TRAC 0 LOT CON

WELL NAME Pembina #2 LE 38-0 PERMIT 6497 INIT CLASS NPW

OPERATOR Pembina Exploration Co. Ltd. TARGET CLI CUR STATUS GS-ABD

DRILLING DATA			DATES		COORDINATES		SAMPLES	
CONTRACTOR	Pembina Drilling Co. Ltd.		PERMIT	1984-05-04	NORTH	m	TOP	111.0
RIG TYPE	ROT	DEPTHS	SPUD	1984-06-28	SOUTH	m	BOT	396.0
CABLE TOP		KB ELEV 180.7	COMPTD	1984-07-08	EAST	m	TRAY	139
BOT		LOGGER 395.1	OFFCNF	1985-07-08	WEST	m		
ROTRY TOP	34.2	DRILLER 395.0	WRKOVR		LAT	42-42-42		
BOT	395.0	DEEP END	ABNDND	1984-07-08	LONG	79-29-47		
DRLG FLD	Gel Chem	PLUG BK						

INITIAL GAS RECORD			CASING AND TUBING RECORD					COMPLETION DATA
INTERVAL	FLOW	SIP	DIAM	WEIGHT	SET AT	HOW SET	RECOV	GAS $10^3 m^3/d$
125.0 –	SHOW		273	75.9	107.7	CEM		OIL m^3/d
300.0 –	SHOW		194	39.3	147.4	CEM		SIP kPa
330.0 –	SHOW							FORM
345.0 – 349.5	1.457	5061						INTRVL m
–								m
–								m

INITIAL OIL RECORD			LOGGING RECORD			PERF ☐	OPEN HOLE ☐
INTERVAL	FLOW	DENSITY	INTERVAL	TYPE	COMPANY	REMARKS	
–			210.0 – 378.0	CBLK	Schlumberger		
–			30.0 – 368.3	CMPL	"		
–			12.0 – 371.0	CBVD	"		
–			36.5 – 378.5	CNFD	"		
–			145.5 – 392.8	DLLM	"		
–			–				
–			–				

INITIAL WATER RECORD			CORING RECORD			
INTERVAL	STAT LEV	TYPE	INTERVAL	LOCATION	NO	Abn
–			–			
–			–			
–			–			
–			–			
–			–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.0		
	DRIFT / LAKE BOTTOM	34.2		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT			
DEVONIAN	HAMILTON			
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE			
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS	90.8		
DEVONIAN	AMHERSTBURG	94.2		
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	109.3		
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY			
SILURIAN	BASS ISLANDS	124.8		
SILURIAN	G SHALE	132.8		
SILURIAN	F SHALE	138.8		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	160.0		
SILURIAN	D SALT/EQUIVALENT	196.5		
SILURIAN	C SHALE	197.4		
SILURIAN	B MARKER	207.2		
SILURIAN	B EQUIVALENT			
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE	221.7		
SILURIAN	A2 CARBONATE	226.5		
SILURIAN	A2 SALT			
SILURIAN	A2 ANHYDRITE	237.7		
SILURIAN	A1 CARBONATE	239.2		
SILURIAN	A1 SALT			
SILURIAN	A1 ANHYDRITE			
SILURIAN	GUELPH	244.2		
SILURIAN	ERAMOSA			
SILURIAN	GOAT ISLAND			
SILURIAN	GASPORT/WIARTON			
SILURIAN	DECEW	298.8		
SILURIAN	ROCHESTER	314.2		
SILURIAN	IRONDEQUOIT	330.2		
SILURIAN	REYNALES/FOSSIL HILL	332.2		
SILURIAN	THOROLD	333.8		
SILURIAN	GRIMSBY	336.8		
SILURIAN	CABOT HEAD	353.9		
SILURIAN	MANITOULIN			
ORDOVICIAN	WHIRLPOOL	371.2		
ORDOVICIAN	QUEENSTON	375.3		
ORDOVICIAN	BLUE MOUNTAIN - GEORG. BAY			
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG			
ORDOVICIAN	VERULAM			
ORDOVICIAN	KIRKFIELD			
ORDOVICIAN	COBOCONK			
ORDOVICIAN	GULL RIVER			
ORDOVICIAN	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY

CTY Haldimand TWP Lake Erie BLK 39 TRAC W LOT CON

WELL NAME Pembina #3 I.E. 39-W PERMIT 6498 INIT CLASS DEV

OPERATOR Pembina Exploration Co. Ltd. TARGET CLI CUR STATUS GS-ABD

DRILLING DATA

CONTRACTOR Pembina Exploration Co. Ltd.
RIG TYPE ROT
CABLE TOP — DEPTHS
BOT — KB ELEV 180.7
ROTRY TOP 35.3 — LOGGER 427.3
BOT 427.4 — DRILLER 427.4
DRLG FLD Gel Chem — DEEP END — PLUG BK

DATES

PERMIT 1984-05-04
SPUD 1984-06-21
COMPTD 1984-06-26
OFFCNF 1984-07-26
WRKOVR
ABNDND 1984-06-27

COORDINATES

NORTH m
SOUTH m
EAST m
WEST m
LAT 42-40-11
LONG 79-32-47

SAMPLES

TOP 126.0
BOT 426.0
TRAY 19

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
160.0 –	SHOW	
285.0 –	SHOW	
368.0 –	SHOW	
399.0 –	SHOW	
395.0 – 403.0	0.256	5500
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.0	123.8	CEM	
194	39.0	168.9	CEM	

COMPLETION DATA

GAS $10^3m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
225.0 – 410.0	CBLK	Schlumberger
33.0 – 410.0	CNFD	"
168.5 – 425.2	DLLM	"
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ABN
358.0 – 375.3	PRL		Y
392.8 – 402.3	PRL		Y
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.0		
DRIFT / LAKE BOTTOM	35.3		
PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	103.8		
COLUMBUS			
LUCAS	106.8		
AMHERSTBURG	119.6		
SYLVANIA			
BOIS BLANC	133.2		
SPRINGVALE			
ORISKANY			
BASS ISLANDS	145.8		
G SHALE	155.3		
F SHALE	160.8		
F SALT			
E CARBONATE	189.2		
D SALT/EQUIVALENT	220.8		
C SHALE	221.8		
B MARKER	231.2		
B EQUIVALENT			
B SALT			
B ANHYDRITE	246.0		
A2 CARBONATE	250.9		
A2 SALT			
A2 ANHYDRITE	262.7		
A1 CARBONATE	264.5		
A1 SALT			
A1 ANHYDRITE			
GUELPH	271.7		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW	322.6		
ROCHESTER	335.0		
IRONDEQUOIT	352.0		
REYNALES/FOSSIL HILL	354.0		
THOROLD	356.0		
GRIMSBY	358.8		
CABOT HEAD	374.2		
MANITOULIN			
WHIRLPOOL	396.4		
QUEENSTON	401.3		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Haldimand TWP Lake Erie BLK 40 TRAC M LOT CON

WELL NAME Pembina #2 I.E. 40-M PERMIT 6464 INIT CLASS DEV

OPERATOR Pembina Exploration Co. Ltd. TARGET CLI CUR STATUS GP

DRILLING DATA

CONTRACTOR Underwater Gas Developers Ltd.
RIG TYPE ROT
CABLE TOP — DEPTHS
BOT — KB ELEV 180.9
ROTRY TOP 36.9 — LOGGER 378.6
BOT 379.1 — DRILLER 379.1
DRLG FLD Gel Chemical & Bari — DEEP END — PLUG BK 351.4

DATES

PERMIT 1984-05-04
SPUD 1984-04-25
COMPTD 1984-04-28
OFFCNF 1984-05-28
WRKOVR
ABNDND

COORDINATES

NORTH m
SOUTH m
EAST m
WEST m
LAT 42-42-43.7
LONG 79-37-46.1

SAMPLES

TOP 84.0
BOT 379.0
TRAY 30

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
319.0 – 333.0	1.753	4781
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	83.9	CEM	
178	25.0	138.4	CEM	
114	14.0	361.2	CEM	
60	5.0	114.8	HAN	

COMPLETION DATA

GAS 1.753 $10^3m^3/d$
OIL m^3/d
SIP 4781 kPa
FORM Grimsby
INTRVL 319.8 – 330.5 m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
276.0 – 350.0	CMPL	Schlumberger
134.0 – 376.6	DLLM	"
134.0 – 360.4	CNFD	"
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ABN
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.2		
DRIFT / LAKE BOTTOM	36.9		
PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE			
COLUMBUS			
LUCAS			
AMHERSTBURG			
SYLVANIA			
BOIS BLANC			
SPRINGVALE			
ORISKANY			
BASS ISLANDS	102.0		
G SHALE			
F SHALE	114.0		
F SALT			
E CARBONATE	141.0		
D SALT/EQUIVALENT			
C SHALE	180.4		
B MARKER	186.0		
B EQUIVALENT			
B SALT			
B ANHYDRITE			
A2 CARBONATE	201.7		
A2 SALT			
A2 ANHYDRITE			
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH	222.0		
ERAMOSA			
GOAT ISLAND	225.1		
GASPORT/WIARTON	270.0		
DECEW			
ROCHESTER	291.0		
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD			
GRIMSBY	318.4		
CABOT HEAD	362.5		
MANITOULIN			
WHIRLPOOL	351.6		
QUEENSTON	356.0		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Haldimand TWP Lake Erie BLK 40 TRAC R LOT CON
WELL NAME Pembina #2 L.E. 40-R PERMIT 6545 INIT CLASS DEV
OPERATOR Pembina Exploration Co. Ltd. TARGET Clinton CUR STATUS GP

DRILLING DATA

CONTRACTOR Pembina Drilling Co. Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 180.7
BOT LOGGER 389.3
ROTRY TOP 37.1 DRILLER 389.0
BOT 389.0 DEEP END
DRLG FLD GEL CHEM PLUG BK 381.9

DATES

PERMIT 1984-07-04
SPUD 1984-
COMPTD 1984-08-10
OFFCNF 1984-09-10
WRKOVR
ABNOND

COORDINATES

NORTH m
SOUTH m
EAST m
WEST m
LAT 42-41-42.3
LONG 79-37-46.4

SAMPLES

TOP 108.0
BOT 389.0
TRAY 144

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
174.0 –	Show	
269.0 –	Show	
366.0 – 374.0	0.808	5349
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.4	106.5	CEM	
194	39.3	154.7	CEM	
114	14.1	385.6	CEM	
60	5.9	361.7	CEM	

COMPLETION DATA

GAS 0.808 $10^3m^3/d$
OIL m^3/d
SIP 5349 kPa
FORM Whirlpool
INTRVL 366.5-369.0 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
210.0 – 372.0	CBLK	
35.0 – 373.5	CNFD	
154.4 – 389.0	DLLM	
–		
–		
–		

PERF ☒ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.0		
DRIFT / LAKE BOTTOM	37.1		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE			
COLUMBUS			
LUCAS			
AMHERSTBURG	85.3		
SYLVANIA			
BOIS BLANC	99.8		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	115.0		
G SHALE	127.7		
F SHALE	132.2		
F SALT			
E CARBONATE	159.4		
D SALT/EQUIVALENT	190.0		
C SHALE	191.0		
B MARKER	200.2		
B EQUIVALENT			
B SALT			
B ANHYDRITE	213.8		
A2 CARBONATE	218.0		
A2 SALT			
A2 ANHYDRITE	231.7		
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
SILURIAN: GUELPH	234.8		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW	290.2		
ROCHESTER	304.2		
IRONDEQUOIT	320.7		
REYNALES/FOSSIL HILL	322.7		
THOROLD	326.0		
GRIMSBY	326.8		
CABOT HEAD	351.2		
MANITOULIN			
WHIRLPOOL	365.0		
ORDOVICIAN: QUEENSTON	369.3		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Haldimand TWP Lake Erie BLK 41 TRAC R LOT CON
WELL NAME Pembina C L.E. 41-R PERMIT 6546 INIT CLASS DEV
OPERATOR Pembina Exploration Co. Ltd. TARGET CLT CUR STATUS GS-Abd

DRILLING DATA

CONTRACTOR Pembina Drilling Co. Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 180.7
BOT LOGGER 392.0
ROTRY TOP 40.1 DRILLER 391.9
BOT 391.9 DEEP END
DRLG FLD Gel Chem PLUG BK

DATES

PERMIT 1984-07-04
SPUD 1984-08-12
COMPTD 1984-08-16
OFFCNF 1984-09-16
WRKOVR
ABNOND 1984-08-15

COORDINATES

NORTH m
SOUTH m
EAST m
WEST m
LAT 42-41-27.9
LONG 79-42-31.2

SAMPLES

TOP 102.0
BOT 390.0
TRAY 223

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
106.0 –	Show	
324.0 –	Show	
365.0 – 373.0	0.363	5458
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.4	99.9	CEM	
194	39.3	152.9	CEM	

COMPLETION DATA

GAS $10^3m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
147.5 – 374.0	CBLK	Schlumberger
38.0 – 374.7	CNFD	"
153.3 – 378.1	DLLM	"
–		
–		
–		

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.0		
DRIFT / LAKE BOTTOM	40.1		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE			
COLUMBUS			
LUCAS			
AMHERSTBURG	87.9		
SYLVANIA			
BOIS BLANC	95.0		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	111.2		
G SHALE	126.0		
F SHALE	131.8		
F SALT			
E CARBONATE	154.7		
D SALT/EQUIVALENT	190.4		
C SHALE	191.2		
B MARKER	200.4		
B EQUIVALENT	206.6		
B SALT			
B ANHYDRITE	214.4		
A2 CARBONATE	220.0		
A2 SALT			
A2 ANHYDRITE	233.6		
A1 CARBONATE	234.8		
A1 SALT			
A1 ANHYDRITE			
SILURIAN: GUELPH	237.6		
ERAMOSA	266.4		
GOAT ISLAND			
GASPORT/WIARTON			
DECEW	290.0		
ROCHESTER	305.6		
IRONDEQUOIT	323.1		
REYNALES/FOSSIL HILL	324.5		
THOROLD	325.9		
GRIMSBY	328.8		
CABOT HEAD	341.2		
MANITOULIN			
WHIRLPOOL	365.0		
ORDOVICIAN: QUEENSTON	369.7		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY: Haldimand TWP: Lake Erie BLK: 41 TRAC: T LOT: CON:
WELL NAME: Pembina #4 L.E. 41-T PERMIT: 6465 INIT CLASS: DEV
OPERATOR: Pembina Exploration Co. Ltd. TARGET: CLI CUR STATUS: CP

DRILLING DATA

CONTRACTOR: Underwater Gas Development
RIG TYPE: ROT DEPTHS
CABLE TOP: KB ELEV: 181.0
BOT: LOGGER: 396.1
ROTRY TOP: 38.9 DRILLER: 396.0
BOT: 396.0 DEEP END:
DRLG FLD: Gel Chem & Barite PLUG BK:

DATES

PERMIT: 1984-05-04
SPUD: 1984-05-02
COMPTD: 1984-05-04
OFFCNF: 1984-06-04
WRKOVR:
ABNDND:

COORDINATES

NORTH: m
SOUTH: m
EAST: m
WEST: m
LAT: 42-41-11
LONG: 79-40-17.2

SAMPLES

TOP: 105.0
BOT: 396.0
TRAY: 5283

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
331.0 –		
334.0 –		
342.0 – 349.0	8.383	4601
365.0 – 372.0	TSTM	5373
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	103.9	CEM	
178	25.0	159.3	CEM	
114	14.0	393.0	CEM	
60	5.0	338.6	HAN	

COMPLETION DATA

GAS: 8.383 $10^3 m^3/d$
OIL: m^3/d
SIP: 4601 kPa
FORM: GRIMSBY
INTRVL: 344.0 – 346.2 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
265.0 – 382.0	CMPL	Schlumberger
158.0 – 386.5	DLLM	"
38.7 – 380.0	CNFD	"
–		
–		
–		

PERF ☒ OPEN HOLE ☐
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO.	Ann.
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.3		
DRIFT / LAKE BOTTOM	38.9		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE			
COLUMBUS			
LUCAS			
AMHERSTBURG	89.5		
SYLVANIA			
BOIS BLANC	97.0		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	112.4		
G SHALE	128.5		
F SHALE	134.2		
F SALT			
E CARBONATE	161.2		
D SALT/EQUIVALENT			
C SHALE	193.4		
B MARKER	202.4		
B EQUIVALENT			
B SALT			
B ANHYDRITE	216.2		
A2 CARBONATE	221.4		
A2 SALT			
SILURIAN: A2 ANHYDRITE	234.2		
A1 CARBONATE	235.3		
A1 SALT			
A1 ANHYDRITE			
GUELPH	239.0		
ERAMOSA			
GOAT ISLAND			
GASPORT/WARTON			
DECEW	292.0		
ROCHESTER	308.8		
IRONDEQUOIT	323.7		
REYNALES/FOSSIL HILL			
THOROLD	328.0		
GRIMSBY	329.7		
CABOT HEAD	347.0		
MANITOULIN			
WHIRLPOOL	361.7		
ORDOVICIAN: QUEENSTON	371.3		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY: Debra K. Parker

CTY: Haldimand TWP: Lake Erie BLK: 41 TRAC: W LOT: CON:
WELL NAME: Pembina #2 L.E. 41-W PERMIT: 6547 INIT CLASS: DEV
OPERATOR: Pembina Exploration Co. Ltd. TARGET: CLI CUR STATUS: CP

DRILLING DATA

CONTRACTOR: Pembina Drilling Co. Ltd.
RIG TYPE: ROT DEPTHS
CABLE TOP: KB ELEV: 180.8
BOT: LOGGER: 400.5
ROTRY TOP: 40.9 DRILLER: 400.0
BOT: 400.0 DEEP END:
DRLG FLD: GEL CHEM PLUG BK: 386.8

DATES

PERMIT: 1984-07-04
SPUD: 1984-08-16
COMPTD: 1984-08-20
OFFCNF: 1984-09-20
WRKOVR:
ABNDND:

COORDINATES

NORTH: m
SOUTH: m
EAST: m
WEST: m
LAT: 42-40- 41.3
LONG: 79-42-44.9

SAMPLES

TOP: 102.0
BOT: 399.0
TRAY: 5891

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
109.0 –	Show	
156.0 –	Show	
340.0 – 350.0	3.084	4798
373.0 –	Show	
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.4	98.8	CEM	
194	39.3	151.7	CEM	
114	14.1	396.3	CEM	
60	5.9	338.0	HAN	

COMPLETION DATA

GAS: 3.084 $10^3 m^3/d$
OIL: m^3/d
SIP: 4798 kPa
FORM: Grimsby
INTRVL: 342.5-346.7 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
300.0 – 386.0	CMPL	Schlumberger
219.5 – 384.2	CBLK	"
35.0 – 399.5	CNFD	"
151.8 – 399.4	DLLM	"
–		
–		

PERF ☒ OPEN HOLE ☐
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO.	Ann.
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.1		
DRIFT / LAKE BOTTOM	40.9		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE			
COLUMBUS			
LUCAS			
AMHERSTBURG	84.4		
SYLVANIA			
BOIS BLANC	101.3		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	117.3		
G SHALE	131.8		
F SHALE	137.2		
F SALT			
E CARBONATE	163.5		
D SALT/EQUIVALENT	194.4		
C SHALE	195.4		
B MARKER	203.6		
B EQUIVALENT			
B SALT			
B ANHYDRITE	218.1		
A2 CARBONATE	223.8		
A2 SALT			
SILURIAN: A2 ANHYDRITE	236.2		
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH	238.5		
ERAMOSA			
GOAT ISLAND			
GASPORT/WARTON			
DECEW	295.7		
ROCHESTER	306.9		
IRONDEQUOIT	326.7		
REYNALES/FOSSIL HILL	328.7		
THOROLD	330.0		
GRIMSBY	331.4		
CABOT HEAD	348.7		
MANITOULIN			
WHIRLPOOL	369.9		
ORDOVICIAN: QUEENSTON	372.8		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY:

CTY: Haldimand TWP: Lake Erie BLK: 44 TRAC: M LOT: CON:
WELL NAME: Pembina #4 LE 44-M PERMIT: 6499 INIT CLASS: DEV
OPERATOR: Pembina Exploration Co. Ltd. TARGET: CLI CUR STATUS: CP

DRILLING DATA		DATES		COORDINATES		SAMPLES	
CONTRACTOR:	Underwater Gas Developers Ltd.	PERMIT:	1984-05-04	NORTH:	m	TOP:	63.0
RIG TYPE:	ROT	SPUD:	1984-05-29	SOUTH:	m	BOT:	375.0
CABLE TOP:	DEPTHS	COMPTD:	1984-06-01	EAST:	m	TRAY:	1227
BOT:	KB ELEV: 181.1	OFFCNF:	1984-07-01	WEST:	m		
ROTRY TOP:	33.9 LOGGER: 376.7	WRKOVR:		LAT:	42-42-16		
BOT:	377.0 DRILLER: 377.0	ABNDND:		LONG:	79-57-16		
DRLG FLD:	Gel Chem & Barit DEEP END: PLUG BK: 358.4						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
326.0 –	SHOW	
323.0 – 331.0	0.935	3481
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	63.4	CEM	
178	25.0	114.3	CEM	
114	14.0	368.2	CEM	
60	5.0	325.8	HAN	

COMPLETION DATA

GAS: 0.935 $10^3 m^3/d$
OIL: m^3/d
SIP: 3481 kPa
FORM: Grimsby
INTRVL: 326.2 – 327.2 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
250.0 – 358.1	CMPL	Schlumberger
169.0 – 360.5	CBLK	"
31.0 – 358.2	CNFD	"
111.0 – 374.8	DLLM	"
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PERF ☒ OPEN HOLE ☐
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	33.9		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	53.4		
	COLUMBUS			
	LUCAS	59.8		
	AMHERSTBURG	72.5		
	SYLVANIA			
	BOIS BLANC	85.5		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	97.6		
	G SHALE	110.2		
	F SHALE	114.2		
	F SALT			
	E CARBONATE	138.8		
	D SALT/EQUIVALENT			
	C SHALE	170.0		
	B MARKER	178.0		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	192.3		
	A2 CARBONATE	196.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	198.2		
	A1 CARBONATE	199.2		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	208.7		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WARTON			
	DECEW			
	ROCHESTER	296.0		
	IRONDEQUOIT	310.4		
	REYNALES/FOSSIL HILL	312.4		
	THOROLD	313.4		
	GRIMSBY	315.		
	CABOT HEAD	330.0		
ORDOVICIAN	MANITOULIN			
	WHIRLPOOL	353.7		
	QUEENSTON	354.8		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY:

CTY: Haldimand TWP: Lake Erie BLK: 45 TRAC: X LOT: CON:
WELL NAME: Pembina #4 L.E. 45-X PERMIT: 6500 INIT CLASS: DEV
OPERATOR: Pembina Exploration Co. Ltd. TARGET: CLI CUR STATUS: GS-Abd

DRILLING DATA		DATES		COORDINATES		SAMPLES	
CONTRACTOR:	Pembina Drilling Co. Ltd.	PERMIT:	1984-05-04	NORTH:	m	TOP:	57.0
RIG TYPE:	ROT	SPUD:	1984-08-31	SOUTH:	m	BOT:	387.0
CABLE TOP:	DEPTHS	COMPTD:	1984-09-05	EAST:	m	TRAY:	250
BOT:	KB ELEV: 180.9	OFFCNF:	1984-10-05	WEST:	m		
ROTRY TOP:	34.4 LOGGER: 386.0	WRKOVR:		LAT:	42-40-15.9		
BOT:	386.0 DRILLER: 386.0	ABNDND:	1984-09-05	LONG:	80-03-19.8		
DRLG FLD:	Gel Chem DEEP END: PLUG BK:						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
87.0 –	Show	
158.0 –	Show	
195.0 –	Show	
327.5 – 336.0	0.823	4081
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.4	55.7	CEM	
194	39.3	110.0	CEM	

COMPLETION DATA

GAS: $10^3 m^3/d$
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
28.5 – 369.3	CNFD	Schlumberger
109.0 – 371.6	DLLM	"
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PERF ☐ OPEN HOLE ☐
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.2		
	DRIFT / LAKE BOTTOM	34.4		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS	38.6		
	AMHERSTBURG	52.7		
	SYLVANIA			
	BOIS BLANC	72.2		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	82.7		
	G SHALE	104.6		
	F SHALE	108.5		
	F SALT			
	E CARBONATE	130.8		
	D SALT/EQUIVALENT	164.7		
	C SHALE	165.8		
	B MARKER	175.3		
	B EQUIVALENT	180.3		
	B SALT			
	B ANHYDRITE	187.5		
	A2 CARBONATE	192.2		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	205.2		
	A1 CARBONATE	206.7		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	208.2		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WARTON			
	DECEW	286.8		
	ROCHESTER	301.2		
	IRONDEQUOIT	316.6		
	REYNALES/FOSSIL HILL	317.5		
	THOROLD	319.4		
	GRIMSBY	320.4		
	CABOT HEAD	334.3		
ORDOVICIAN	MANITOULIN			
	WHIRLPOOL	359.0		
	QUEENSTON	361.0		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY:

CTY: Norfolk TWP: Lake Erie BLK: 48 TRAC: V LOT: CON:
WELL NAME: Place Lake Erie 48-V PERMIT: 6586 INIT CLASS: DEV
OPERATOR: Place Gas & Oil Co. Ltd. TARGET: CLI CUR STATUS: DH-Abd

DRILLING DATA
CONTRACTOR: Place Gas & Oil Co. Ltd.
RIG TYPE: CAB
CABLE TOP: 45.0 BOT: 392.3
ROTRY TOP: BOT:
DRLG FLD:
DEPTHS
KB ELEV: 179.0
LOGGER:
DRILLER: 392.3
DEEP END:
PLUG BK:

DATES
PERMIT: 1984-09-10
SPUD: 1984-09-04
COMPTD: 1984-10-13
OFFCNF: 1984-11-13
WRKOVR:
ABNDND: 1984-10-29

COORDINATES
NORTH: m
SOUTH: m
EAST: m
WEST: m
LAT: 42-40-30
LONG: 30-16-30

SAMPLES
TOP:
BOT:
TRAY:

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
203		59.1	SHO	12.3
114		349.9	BHP	349.9

COMPLETION DATA
GAS: $10^3 m^3/d$
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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–		
–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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PERF ☐ OPEN HOLE ☐
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO.	ANAL
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GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	44.0		
DRIFT / LAKE BOTTOM	45.0		
PORT LAMBTON (DEVONIAN)			
KETTLE POINT (DEVONIAN)			
HAMILTON (DEVONIAN)			
MARCELLUS (DEVONIAN)			
DUNDEE (DEVONIAN)			
COLUMBUS (DEVONIAN)			
LUCAS (DEVONIAN)			
AMHERSTBURG (DEVONIAN)			
SYLVANIA (DEVONIAN)			
BOIS BLANC (DEVONIAN)			
SPRINGVALE (DEVONIAN)			
ORISKANY (DEVONIAN)			
BASS ISLANDS (SILURIAN)			
G SHALE (SILURIAN)			
F SHALE (SILURIAN)			
F SALT (SILURIAN)			
E CARBONATE (SILURIAN)			
D SALT/EQUIVALENT (SILURIAN)			
C SHALE (SILURIAN)			
B MARKER (SILURIAN)			
B EQUIVALENT (SILURIAN)			
B SALT (SILURIAN)			
B ANHYDRITE (SILURIAN)			
A2 CARBONATE (SILURIAN)			
A2 SALT (SILURIAN)			
A2 ANHYDRITE (SILURIAN)			
A1 CARBONATE (SILURIAN)			
A1 SALT (SILURIAN)			
A1 ANHYDRITE (SILURIAN)			
GUELPH (SILURIAN)			
ERAMOSA (SILURIAN)			
GOAT ISLAND (SILURIAN)			
GASPORT/WIARTON (SILURIAN)			
DECEW (SILURIAN)			
ROCHESTER (SILURIAN)			
IRONDEQUOIT (SILURIAN)			
REYNALES/FOSSIL HILL (SILURIAN)			
THOROLD (SILURIAN)			
GRIMSBY (SILURIAN)			
CABOT HEAD (SILURIAN)			
MANITOULIN (SILURIAN)			
WHIRLPOOL (SILURIAN)			
QUEENSTON (ORDOVICIAN)			
BLUE MOUNTAIN - GEORG. BAY (ORDOVICIAN)			
COLLINGWOOD (ORDOVICIAN)			
COBOURG (ORDOVICIAN)			
VERULAM (ORDOVICIAN)			
KIRKFIELD (ORDOVICIAN)			
COBOCONK (ORDOVICIAN)			
GULL RIVER (ORDOVICIAN)			
SHADOW LAKE (ORDOVICIAN)			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY:

CTY: Elgin TWP: Lake Erie BLK: 53 TRAC: 0 LOT: CON:
WELL NAME: Pembina-Cons #4 L.E. 53-0 PERMIT: 6578 INIT CLASS: NPW
OPERATOR: Pembina Exploration Co. Ltd. TARGET: CLI CUR STATUS: DH-Abd

DRILLING DATA
CONTRACTOR: Underwater Gas Developers Ltd.
RIG TYPE: ROT
CABLE TOP: BOT:
ROTRY TOP: 20.4 BOT: 507.0
DRLG FLD: Polybrine
DEPTHS
KB ELEV: 181.2
LOGGER: 506.8
DRILLER: 507.0
DEEP END:
PLUG BK:

DATES
PERMIT: 1984-08-22
SPUD: 1984-09-09
COMPTD: 1984-09-13
OFFCNF: 1985-09-13
WRKOVR:
ABNDND: 1984-09-13

COORDINATES
NORTH: m
SOUTH: m
EAST: m
WEST: m
LAT: 42-37-30.3
LONG: 81-09-32.5

SAMPLES
TOP: 78.0
BOT: 507.0
TRAY: 5810

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	76.8	CEM	
178	25.0	134.0	CEM	

COMPLETION DATA
GAS: $10^3 m^3/d$
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
95.0 – 102.0	Show	
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
133.5 – 502.6	LATL	Schlumberge
21.0 – 502.9	SONL	"
20.6 – 500.0	CNFD	"
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PERF ☐ OPEN HOLE ☐
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO.	ANAL
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GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.5		
DRIFT / LAKE BOTTOM	20.4		
PORT LAMBTON (DEVONIAN)			
KETTLE POINT (DEVONIAN)			
HAMILTON (DEVONIAN)	59.6		
MARCELLUS (DEVONIAN)			
DUNDEE (DEVONIAN)	81.0		
COLUMBUS (DEVONIAN)			
LUCAS (DEVONIAN)	118.0		
AMHERSTBURG (DEVONIAN)	134.2		
SYLVANIA (DEVONIAN)			
BOIS BLANC (DEVONIAN)	164.0		
SPRINGVALE (DEVONIAN)			
ORISKANY (DEVONIAN)			
BASS ISLANDS (SILURIAN)	212.0		
G SHALE (SILURIAN)	236.6		
F SHALE (SILURIAN)	244.7		
F SALT (SILURIAN)			
E CARBONATE (SILURIAN)	269.5		
D SALT/EQUIVALENT (SILURIAN)	305.0		
C SHALE (SILURIAN)	306.2		
B MARKER (SILURIAN)	314.2		
B EQUIVALENT (SILURIAN)			
B SALT (SILURIAN)			
B ANHYDRITE (SILURIAN)	328.0		
A2 CARBONATE (SILURIAN)	333.7		
A2 SALT (SILURIAN)			
A2 ANHYDRITE (SILURIAN)	350.0		
A1 CARBONATE (SILURIAN)	353.2		
A1 SALT (SILURIAN)			
A1 ANHYDRITE (SILURIAN)			
GUELPH (SILURIAN)	365.3		
ERAMOSA (SILURIAN)			
GOAT ISLAND (SILURIAN)			
GASPORT/WIARTON (SILURIAN)			
DECEW (SILURIAN)	437.7		
ROCHESTER (SILURIAN)	441.8		
IRONDEQUOIT (SILURIAN)			
REYNALES/FOSSIL HILL (SILURIAN)	454.7		
THOROLD (SILURIAN)	457.8		
GRIMSBY (SILURIAN)	459.5		
CABOT HEAD (SILURIAN)	471.8		
MANITOULIN (SILURIAN)	480.4		
WHIRLPOOL (SILURIAN)			
QUEENSTON (ORDOVICIAN)	490.5		
BLUE MOUNTAIN - GEORG. BAY (ORDOVICIAN)			
COLLINGWOOD (ORDOVICIAN)			
COBOURG (ORDOVICIAN)			
VERULAM (ORDOVICIAN)			
KIRKFIELD (ORDOVICIAN)			
COBOCONK (ORDOVICIAN)			
GULL RIVER (ORDOVICIAN)			
SHADOW LAKE (ORDOVICIAN)			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY:

CTY: Elgin TWP: Lake Erie BLK: 54 TRAC: W LOT: CON:
WELL NAME: Pembina-Cons #2 L.E. 54-W PERMIT: 6579 INIT CLASS: NPW
OPERATOR: Pembina Exploration Co. Ltd. TARGET: CLI CUR STATUS: DH-Abd

DRILLING DATA		DATES		COORDINATES		SAMPLES	
CONTRACTOR:	Underwater Gas Developers Ltd.	PERMIT:	1984-08-22	NORTH:	m	TOP:	90.0
RIG TYPE:	ROT	SPUD:	1984-09-14	SOUTH:	m	BOT:	512.0
CABLE TOP:	DEPTHS	COMPTD:	1984-09-17	EAST:	m	TRAY:	5777
BOT:	KB ELEV: 181.3	OFFCNF:	1985-09-17	WEST:	m		
ROTRY TOP:	22.8 LOGGER: 512.2	WRKOVR:		LAT:	42-35-42.4		
BOT:	512.0 DRILLER: 512.0	ABNDND:	1984-09-17	LONG:	82-02-45.8		
DRLG FLD:	Polybrine DEEP END: PLUG BK:						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	88.3	CEM	
178	25.0	131.8	CEM	

COMPLETION DATA

GAS: 10 ^{3}m^3/d
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
22.0 – 504.1	CNFD	Schlumberger
133.0 – 508.0	LATL	"
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PERF ☐ OPEN HOLE ☐ REMARKS

INITIAL WATER RECORD

INTERVAL	STAT. LEV.	TYPE
199.0 –		SUL
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CORING RECORD

INTERVAL	LOCATION	NO.	mm
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GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.6		
DRIFT / LAKE BOTTOM	22.8		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT			
DEVONIAN: HAMILTON	68.3		
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	103.8		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS	139.8		
DEVONIAN: AMHERSTBURG	150.5		
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC	197.5		
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS	213.0		
SILURIAN: G SHALE	241.3		
SILURIAN: F SHALE	249.7		
SILURIAN: F SALT			
SILURIAN: E CARBONATE	278.6		
SILURIAN: D SALT/EQUIVALENT	310.8		
SILURIAN: C SHALE	311.8		
SILURIAN: B MARKER	319.6		
SILURIAN: B EQUIVALENT			
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE	335.5		
SILURIAN: A2 CARBONATE	339.4		
SILURIAN: A2 SALT			
SILURIAN: A2 ANHYDRITE	355.0		
SILURIAN: A1 CARBONATE	357.8		
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH	368.9		
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/MARTON			
SILURIAN: DECEW	440.2		
SILURIAN: ROCHESTER	447.9		
SILURIAN: IRONDEQUOIT			
SILURIAN: REYNALES/FOSSIL HILL	456.8		
SILURIAN: THOROLD	462.4		
SILURIAN: GRIMSBY	466.8		
SILURIAN: CABOT HEAD	473.3		
SILURIAN: MANITOULIN	489.0		
SILURIAN: WHIRLPOOL	492.8		
ORDOVICIAN: QUEENSTON	494.3		
ORDOVICIAN: BLUE MOUNTAIN - GEORG. BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY:

CTY: Norfolk TWP: Lake Erie BLK: 63 TRAC: 1 LOT: CON:
WELL NAME: Pembina #3 L.E. 63-I PERMIT: 6602 INIT CLASS: DEV
OPERATOR: Pembina Exploration Ltd. TARGET: CLI CUR STATUS: GP

DRILLING DATA		DATES		COORDINATES		SAMPLES	
CONTRACTOR:	Pembina Drilling Co. Ltd.	PERMIT:	1984-09-21	NORTH:	m	TOP:	90.0
RIG TYPE:	ROT	SPUD:	1984-09-22	SOUTH:	m	BOT:	424.0
CABLE TOP:	DEPTHS	COMPTD:	1984-09-28	EAST:	m	TRAY:	277
BOT:	KB ELEV: 180.7	OFFCNF:	1984-10-28	WEST:	m		
ROTRY TOP:	16.4 LOGGER: 424.0	WRKOVR:		LAT:	42-38-13.5		
BOT:	424.0 DRILLER: 424.0	ABNDND:		LONG:	80-11-49.4		
DRLG FLD:	GEL CHEM DEEP END: PLUG BK: 406.5						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
106.0 –	Show	
364.0 – 370.5	1.499	4385
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.4	89.1	CEM	
194	39.3	128.8	CEM	
114	14.1	417.2	CEM	
60	5.9	361.7	HAN	

COMPLETION DATA

GAS: 1.499 10 ^{3}m^3/d
OIL: m^3/d
SIP: 4385 kPa
FORM: Grimsby
INTRVL: 365.6-368.7 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
15.0 – 406.7	CNFD	Schlumberger
129.0 – 421.8	DLLM	"
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PERF ☑ OPEN HOLE ☐ REMARKS

INITIAL WATER RECORD

INTERVAL	STAT. LEV.	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO.	mm
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–			
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GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.0		
DRIFT / LAKE BOTTOM	16.4		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT			
DEVONIAN: HAMILTON			
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	72.4		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS	82.3		
DEVONIAN: AMHERSTBURG	98.6		
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC	125.5		
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS	135.4		
SILURIAN: G SHALE	159.1		
SILURIAN: F SHALE	165.5		
SILURIAN: F SALT			
SILURIAN: E CARBONATE	188.8		
SILURIAN: D SALT/EQUIVALENT	225.0		
SILURIAN: C SHALE	226.4		
SILURIAN: B MARKER	234.4		
SILURIAN: B EQUIVALENT			
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE	247.3		
SILURIAN: A2 CARBONATE	252.8		
SILURIAN: A2 SALT			
SILURIAN: A2 ANHYDRITE			
SILURIAN: A1 CARBONATE			
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH	266.5		
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/MARTON			
SILURIAN: DECEW	336.2		
SILURIAN: ROCHESTER	344.0		
SILURIAN: IRONDEQUOIT			
SILURIAN: REYNALES/FOSSIL HILL	358.2		
SILURIAN: THOROLD	361.7		
SILURIAN: GRIMSBY	362.2		
SILURIAN: CABOT HEAD	375.2		
SILURIAN: MANITOULIN	396.5		
SILURIAN: WHIRLPOOL	401.0		
ORDOVICIAN: QUEENSTON	402.0		
ORDOVICIAN: BLUE MOUNTAIN - GEORG. BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY:

CTY: Norfolk TWP: Lake Erie BLK: 63 TRAC: M LOT: CON:
WELL NAME: Pembina #2 L.E. 63-M PERMIT: 6463 INIT CLASS: DEV
OPERATOR: Pembina Exploration Co. Ltd. TARGET: CLI CUR STATUS: GP

DRILLING DATA

CONTRACTOR: Pembina Drilling Co. Ltd.
RIG TYPE: ROT DEPTHS
CABLE TOOL: KB ELEV: 180.9
BOT: LOGGER: 431.1
ROTRY TOP: 16.1 DRILLER: 431.4
BOT: 431.4 DEEP END:
DRLG FLD: Gel Chemical PLUG BK: 412.0

DATES

PERMIT: 1984-05-04
SPUD: 1984-05-06
COMPTD: 1984-05-11
OFFCNF: 1984-06-11
WRKOVR:
ABNDND:

COORDINATES

NORTH: m
SOUTH: m
EAST: m
WEST: m
LAT: 42-37-43.5
LONG: 80-12-44.4

SAMPLES

TOP: 94.0
BOT: 431.0
TRAY: 1109

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
136.0–	SHOW	
377.5– 382.0	3.439	460
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
60	5.9	373.2	HAN	
114	14.1	419.9	CEM	
194	39.3	141.5	CEM	
340	71.4	91.2	CEM	

COMPLETION DATA

GAS: 3.439 $10^3 m^3/d$
OIL: m^3/d
SIP: 460 kPa
FORM: GRIMSBY
INTRVL: 378.0 – 381.0 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
349.0 – 410.0	CMPL	Schlumberger
138.0 – 428.5	DLLM	"
19.0 – 414.5	CNFD	"
–		
–		
–		
–		

PERF ☒ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
97.0–		SUL
273.0–		SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.2		
	DRIFT / LAKE BOTTOM	16.1		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	76.2		
	COLUMBUS			
	LUCAS	93.5		
	AMHERSTBURG	105.7		
	SYLVANIA			
	BOIS BLANC	121.6		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	141.8		
	G SHALE	166.8		
	F SHALE	173.6		
	F SALT			
	E CARBONATE	196.8		
	D SALT/EQUIVALENT	232.2		
	C SHALE	233.5		
	B MARKER	242.5		
	B EQUIVALENT	247.6		
	B SALT			
	B ANHYDRITE	255.2		
	A2 CARBONATE	260.8		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	270.0		
	A1 CARBONATE	271.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	273.6		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	341.6		
	ROCHESTER	350.1		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	364.2		
	THOROLD	367.8		
	GRIMSBY	369.2		
	CABOT HEAD	385.0		
	MANITOULIN	402.8		
	WHIRLPOOL	407.1		
ORDOVICIAN	QUEENSTON	409.1		
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY: Debra K. Parker

CTY: Norfolk TWP: Lake Erie BLK: 63 TRAC: S LOT: CON:
WELL NAME: Pembina #2 LE 63-S PERMIT: 6462 INIT CLASS: DEV
OPERATOR: Pembina Exploration Co. Ltd. TARGET: CLI CUR STATUS: DH-ABD

DRILLING DATA

CONTRACTOR: Pembina Drilling CO. Ltd.
RIG TYPE: ROT DEPTHS
CABLE TOP: KB ELEV: 180.8
BOT: LOGGER: 448.0
ROTRY TOP: 16.1 DRILLER: 447.5
BOT: 447.5 DEEP END:
DRLG FLD: Gel. Chem. PLUG BK:

DATES

PERMIT: 1984-05-04
SPUD: 1984-04-27
COMPTD: 1984-04-30
OFFCNF: 1984-05-30
WRKOVR:
ABNDND: 1984-05-04

COORDINATES

NORTH: m
SOUTH: m
EAST: m
WEST: m
LAT: 42-36-45.7
LONG: 80-11-47.1

SAMPLES

TOP: 99.0
BOT: 448.0
TRAY: 1404

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
385.0 – 395.0		3454
–		
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–		
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–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.0	98.8	CEM	
193	39.0	151.2	CEM	

COMPLETION DATA

GAS: $10^3 m^3/d$
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
18.0 – 430.7	CNFD	Schlumberger
154.5 – 445.6	DLLM	"
–		
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PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
102.0 –		SUL
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
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–			
–			
–			

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.1		
	DRIFT / LAKE BOTTOM	16.1		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	84.0		
	COLUMBUS			
	LUCAS	87.5		
	AMHERSTBURG	117.0		
	SYLVANIA			
	BOIS BLANC	128.0		
	SPRINGVALE	145.0		
	ORISKANY			
SILURIAN	BASS ISLANDS	148.7		
	G SHALE	176.2		
	F SHALE	181.4		
	F SALT			
	E CARBONATE	205.0		
	D SALT/EQUIVALENT	241.2		
	C SHALE	242.5		
	B MARKER	250.6		
	B EQUIVALENT	255.8		
	B SALT			
	B ANHYDRITE	263.8		
	A2 CARBONATE	268.8		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	270.8		
	A1 CARBONATE	273.6		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	281.8		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	343.2		
	ROCHESTER	367.7		
	IRONDEQUOIT	376.5		
	REYNALES/FOSSIL HILL	378.0-1		
	THOROLD	380.0		
	GRIMSBY	382.0		
	CABOT HEAD	398.2		
	MANITOULIN			
	WHIRLPOOL	419.2		
ORDOVICIAN	QUEENSTON	422.7		
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY:

CTY Norfolk TWP Lake Erie BLK 64 TRAC P LOT CON

WELL NAME Pembina #2 LE 64-P PERMIT 6501 INIT CLASS DEV

OPERATOR Pembina Exploration Co. Ltd. TARGET CLI CUR STATUS GS-ABD

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Pembina Drilling Co. Ltd.			PERMIT	1984-05-04	NORTH	m	TOP	99.0
RIG TYPE	ROT	DEPTHS		SPUD	1984-05-13	SOUTH	m	BOT	443.0
CABLE TOP		KB ELEV	180.7	COMPTD	1984-05-17	EAST	m	TRAY	1172
BOT		LOGGER	443.7	OFFCNF	1984-06-17	WEST	m		
ROTRY TOP	16.5	DRILLER	443.6	WRKOVR		LAT	42-36-42		
BOT	443.6	DEEP END		ABNDND	1984-05-18	LONG	80-09-45		
DRLG FLD	Gel Chem	PLUG BK							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
101.0 –	Show	
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	71.4	98.2	CEM	
194	39.3	150.9	CEM	

COMPLETION DATA

GAS	$10^3 m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
249.0 – 425.5	CBLK	Schlumberger
146.0 – 434.8	DLLM	"
20.0 – 427.8	CNFD	"
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PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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–		
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CORING RECORD

INTERVAL	LOCATION	NO	Anal.
417.0 – 422.5			Y
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–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.0		
	DRIFT / LAKE BOTTOM	16.5		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	82.6		
	COLUMBUS			
	LUCAS	99.1		
	AMHERSTBURG	113.7		
	SYLVANIA			
	BOIS BLANC	129.6		
	SPRINGVALE	142.7		
	ORISKANY			
SILURIAN	BASS ISLANDS	145.2		
	G SHALE	172.5		
	F SHALE	179.0		
	F SALT			
	E CARBONATE	206.3		
	D SALT/EQUIVALENT	238.0		
	C SHALE	239.1		
	B MARKER	247.8		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	261.3		
	A2 CARBONATE	267.0		
	A2 SALT			

	A2 ANHYDRITE	270.6		
	A1 CARBONATE	271.8		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	279.6		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/MARTON			
	DECEW	346.4		
	ROCHESTER	366.8		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	375.9		
	THOROLD	379.3		
	GRIMSBY	380.2		
	CABOT HEAD	394.2		
	MANITOULIN			
	WHIRLPOOL	418.9		
	QUEENSTON	421.5		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY

CTY Haldimand TWP Lake Erie BLK 64 TRAC T LOT CON

WELL NAME Pembina #3 LE 64-T PERMIT 6502 INIT CLASS DEV

OPERATOR Pembina Exploration Co. Ltd. TARGET CLI CUR STATUS DH-ABD

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Pembina Drilling Co. Ltd.			PERMIT	1984-05-04	NORTH	m	TOP	102.0
RIG TYPE	ROT	DEPTHS		SPUD	1984-07-13	SOUTH	m	BOT	444.0
CABLE TOP		KB ELEV	180.7	COMPTD	1984-07-16	EAST	m	TRAY	230
BOT		LOGGER	445.3	OFFCNF	1984-07-16	WEST	m		
ROTRY TOP	24.3	DRILLER	445.5	WRKOVR		LAT	42-36-14		
BOT	445.5	DEEP END		ABNDND	1984-07-16	LONG	80-05-35		
DRLG FLD	Gel Chem	PLUG BK							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
115.0 –	Show	
165.0 –	Show	
386.5 – 399.0	0.496	4643
–		
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	71.4	101.0	CEM	
194	39.3	152.6	CEM	

COMPLETION DATA

GAS	$10^3 m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
248.0 – 428.0	CBLK	Schlumberger
149.0 – 442.7	DLLM	"
20.0 – 429.2	CNFD	"
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
115.0 –		SUL
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	Anal.
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.0		
	DRIFT / LAKE BOTTOM	24.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	84.4		
	COLUMBUS			
	LUCAS	87.6		
	AMHERSTBURG	98.4		
	SYLVANIA			
	BOIS BLANC	121.6		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	135.3		
	G SHALE	162.2		
	F SHALE	167.7		
	F SALT			
	E CARBONATE	194.7		
	D SALT/EQUIVALENT	224.5		
	C SHALE	225.5		
	B MARKER	233.6		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	247.0		
	A2 CARBONATE	252.0		
	A2 SALT			

	A2 ANHYDRITE	263.7		
	A1 CARBONATE	265.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	267.8		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/MARTON			
	DECEW	346.8		
	ROCHESTER	361.2		
	IRONDEQUOIT	378.2		
	REYNALES/FOSSIL HILL	379.8		
	THOROLD	381.5		
	GRIMSBY	382.2		
	CABOT HEAD	397.3		
	MANITOULIN	418.3		
	WHIRLPOOL	421.7		
	QUEENSTON	424.2		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY

CTY: Norfolk TWP: Lake Erie BLK: 65 TRAC: E LOT: CON:
WELL NAME: Pembina #2 L.E. 65-E PERMIT: 6572 INIT CLASS: DEV
OPERATOR: Pembina Exploration Co. Ltd. TARGET: Clinton CUR STATUS: GP

DRILLING DATA

CONTRACTOR: Pembina Drilling Co. Ltd.
RIG TYPE: ROT DEPTHS
CABLE TOP: KB ELEV: 180.7
BOT: LOGGER: 391.5
ROTRY TOP: 33.9 DRILLER: 391.5
BOT: 391.5 DEEP END:
DRLG FLD: GEL CHEM PLUG BK: 373.9

DATES

PERMIT: 1984-08-02
SPUD: 1984-08-22
COMPTD: 1984-08-31
OFFCNF: 1984-09-31
WRKOVR:
ABNDND:

COORDINATES

NORTH: m
SOUTH: m
EAST: m
WEST: m
LAT: 42-39-45.5
LONG: 80-04-45.0

SAMPLES

TOP: 78.0
BOT: 390.0
TRAY: 279

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
285.0 –	Show	
338.5 – 343.0	19.608	4006
331.5 – 338.5	2.375	3967
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.4	66.9	CEM	
194	39.3	119.8	CEM	
114	14.1	384.4	CEM	
60	5.9	331.2	HAN	

COMPLETION DATA

GAS: 21.983 $10^3 m^3/d$
OIL: m^3/d
SIP: 4006 kPa
FORM: Grimsby
INTRVL: 335.6-340.2 m
m
m
PERF: ☑ OPEN HOLE: ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
300.0 – 374.0	CMPL	Schlumberger
197.0 – 370.0	CBLK	"
26.0 – 374.3	CNFD	"
116.0 – 384.5	DLLM	"
–		
–		
–		

REMARKS:

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
285.0 –		SUL
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANN
330.0 – 348.3	PKL		Y
–			
–			
–			
–			

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.0		
	DRIFT / LAKE BOTTOM	33.9		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS	41.3		
	AMHERSTBURG	54.7		
	SYLVANIA			
	BOIS BLANC	73.8		
	SPRINGVALE	85.4		
	ORISKANY			
SILURIAN	BASS ISLANDS	94.4		
	G SHALE	116.3		
	F SHALE	122.0		
	F SALT			
	E CARBONATE	148.2		
	D SALT/EQUIVALENT	178.0		
	C SHALE	180.4		
	B MARKER	187.5		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	200.0		
	A2 CARBONATE	205.1		
	A2 SALT			

		TOP	ELEV	THICK
	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	217.7		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/MARTON			
	DECEW	291.7		
	ROCHESTER	307.2		
	IRONDEQUOIT	322.5		
	REYNALES/FOSSIL HILL	323.5		
	THOROLD	325.6		
	GRIMSBY	326.4		
	CABOT HEAD	341.2		
	MANITOULIN			
	WHIRLPOOL	365.7		
ORDOVICIAN	QUEENSTON	367.8		
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY:

CTY: Haldimand TWP: Lake Erie BLK: 65 TRAC: K LOT: CON:
WELL NAME: Pembina #2 L.E. 65-K PERMIT: 6573 INIT CLASS: DEV
OPERATOR: Pembina Exploration Co. Ltd. TARGET: Clinton CUR STATUS: GP

DRILLING DATA

CONTRACTOR: Pembina Drilling Co. Ltd.
RIG TYPE: ROT DEPTHS
CABLE TOP: KB ELEV:
BOT: LOGGER: 421.7
ROTRY TOP: 45.9 DRILLER: 421.8
BOT: 421.8 DEEP END:
DRLG FLD: GEL CHEM PLUG BK: 405.0

DATES

PERMIT: 1984-08-02
SPUD: 1984-09-11
COMPTD: 1984-09-17
OFFCNF: 1984-10-17
WRKOVR:
ABNDND:

COORDINATES

NORTH: m
SOUTH: m
EAST: m
WEST: m
LAT: 42-37-43.5
LONG: 80-00-45.4

SAMPLES

TOP: 93.0
BOT: 420.0
TRAY: 4817

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
257.0 –	Show	
392.0 – 398.0	2.313	5812
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.4	89.5	CEM	
194	39.3	140.6	CEM	
114	14.1	415.8	CEM	
60	5.9	390.8	HAN	

COMPLETION DATA

GAS: 2.313 $10^3 m^3/d$
OIL: m^3/d
SIP: 5812 kPa
FORM: Whirlpool
INTRVL: 395.0-396.0 m
m
m
PERF: ☑ OPEN HOLE: ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
325.0 – 404.0	CMPL	Schlumberger
40.0 – 405.0	CNFD	"
137.0 – 408.0	DLLM	"
–		
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–		

REMARKS:

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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–		

CORING RECORD

INTERVAL	LOCATION	NO	ANN
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.0		
	DRIFT / LAKE BOTTOM	65.9		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS	78.5		
	AMHERSTBURG	90.1		
	SYLVANIA			
	BOIS BLANC	116.6		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	125.0		
	G SHALE	145.8		
	F SHALE	152.4		
	F SALT			
	E CARBONATE	174.9		
	D SALT/EQUIVALENT	209.6		
	C SHALE	211.6		
	B MARKER	219.0		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	231.8		
	A2 CARBONATE	237.2		
	A2 SALT			

		TOP	ELEV	THICK
	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	249.8		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/MARTON			
	DECEW	318.4		
	ROCHESTER	331.4		
	IRONDEQUOIT	349.5		
	REYNALES/FOSSIL HILL	350.6		
	THOROLD	352.5		
	GRIMSBY	353.3		
	CABOT HEAD	360.2		
	MANITOULIN			
	WHIRLPOOL	392.6		
ORDOVICIAN	QUEENSTON	396.1		
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY:

CTY: Norfolk TWP: Lake Erie BLK: 65 TRAC: Y LOT: CON:
WELL NAME: Pembina #2 L.E. 65-Y PERMIT: 6574 INIT CLASS: DEV
OPERATOR: Pembina Exploration Co. Ltd. TARGET: Clinton CUR STATUS: GP

DRILLING DATA			DATES		COORDINATES		SAMPLES	
CONTRACTOR	Pembina Drilling Co. Ltd.		PERMIT	1984-08-02	NORTH	m	TOP	108.0
RIG TYPE	ROT	DEPTHS	SPUD	1984-09-18	SOUTH	m	BOT	453.0
CABLE TOP		KB ELEV 180.7	COMPTD	1984-09-22	EAST	m	TRAY	249
BOT		LOGGER 452.9	OFFCNF	1984-10-22	WEST	m		
ROTRY TOP	29.9	DRILLER 453.0	WRKOVR		LAT	42-35-45.5		
BOT	453.0	DEEP END	ABNDND		LONG	80-04-46.5		
DRLG FLD	GEL CHEM	PLUG BK 439.6						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
117.0 –	Show	
205.0 –	Show	
396.0 – 402.0	5.712	4654
383.0 – 388.0	694	4607
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.4	106.7	CEM	
194	39.3	166.1	CEM	
114	14.1	450.1	CEM	
60	5.9	381.6	HAN	

COMPLETION DATA

GAS 5.712 $10^3 m^3/d$
OIL m^3/d
SIP 4654 kPa
FORM Whirlpool
INTRVL 396.8-398.8 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
350.0 – 439.0	CMPL	Schlumberger
260.0 – 435.0	CBLK	"
24.0 – 435.8	CNFD	"
166.0 – 450.6	DLLM	"
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PERF ☒ OPEN HOLE ☐
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	MM
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.0		
	DRIFT / LAKE BOTTOM	29.9		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT			
DEVONIAN	HAMILTON			
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE	92.6		
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS	97.0		
DEVONIAN	AMHERSTBURG			
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	119.0		
DEVONIAN	SPRINGVALE	142.7		
DEVONIAN	ORISKANY			
SILURIAN	BASS ISLANDS	146.6		
SILURIAN	G SHALE	178.6		
SILURIAN	F SHALE	183.3		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	205.8		
SILURIAN	D SALT/EQUIVALENT	241.1		
SILURIAN	C SHALE	242.3		
SILURIAN	B MARKER	250.1		
SILURIAN	B EQUIVALENT			
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE	263.3		
SILURIAN	A2 CARBONATE	268.7		
SILURIAN	A2 SALT			
	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
SILURIAN	GUELPH	281.0		
SILURIAN	ERAMOSA			
SILURIAN	GOAT ISLAND			
SILURIAN	GASPORT/MARTON			
SILURIAN	DECEW	350.1		
SILURIAN	ROCHESTER	372.8		
SILURIAN	IRONDEQUOIT	381.1		
SILURIAN	REYNALES/FOSSIL HILL	382.7		
SILURIAN	THOROLD	384.3		
SILURIAN	GRIMSBY	385.0		
SILURIAN	CABOT HEAD	399.5		
SILURIAN	MANITOULIN			
SILURIAN	WHIRLPOOL	425.4		
ORDOVICIAN	QUEENSTON	427.6		
ORDOVICIAN	BLUE MOUNTAIN - GEORG. BAY			
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG			
ORDOVICIAN	VERULAM			
ORDOVICIAN	KIRKFIELD			
ORDOVICIAN	COBOCONK			
ORDOVICIAN	GULL RIVER			
ORDOVICIAN	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY

CTY: Haldimand TWP: Lake Erie BLK: 66 TRAC: W LOT: CON:
WELL NAME: Pembina #1 LE 66-W PERMIT: 6503 INIT CLASS: DEV
OPERATOR: Pembina Exploration Co. Ltd. TARGET: CLI CUR STATUS: GS-ABD

DRILLING DATA			DATES		COORDINATES		SAMPLES	
CONTRACTOR	Underwater Gas Developers Ltd.		PERMIT	1984-05-04	NORTH	m	TOP	114.0
RIG TYPE	Rot	DEPTHS	SPUD	1984-06-02	SOUTH	m	BOT	417.0
CABLE TOP		KB ELEV 181.1	COMPTD	1984-06-05	EAST	m	TRAY	235
BOT		LOGGER 450.2	OFFCNF	1984-07-05	WEST	m		
ROTRY TOP	55.6	DRILLER 450.0	WRKOVR		LAT	42-35-45		
BOT	450.0	DEEP END	ABNDND	1984-06-05	LONG	79-57-16		
DRLG FLD	Gel Chem & Barite	PLUG BK						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
387.0 –	Show	
384.0 – 389.0	0.176	4623
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–		
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	116.1	CEM	
178	25.0	170.5	CEM	

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
225.0 – 433.0	CBLK	Schlumberger
51.0 – 449.3	CNFD	"
168.0 – 447.5	DLLM	"
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PERF ☐ OPEN HOLE ☒
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	MM
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–			
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–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	55.6		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT			
DEVONIAN	HAMILTON			
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE			
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS	101.7		
DEVONIAN	AMHERSTBURG	114.7		
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	137.6		
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY			
SILURIAN	BASS ISLANDS	158.8		
SILURIAN	G SHALE	180.2		
SILURIAN	F SHALE	186.8		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	208.8		
SILURIAN	D SALT/EQUIVALENT	243.2		
SILURIAN	C SHALE	244.5		
SILURIAN	B MARKER	252.7		
SILURIAN	B EQUIVALENT			
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE	266.0		
SILURIAN	A2 CARBONATE	271.0		
SILURIAN	A2 SALT			
	A2 ANHYDRITE			
	A1 CARBONATE	283.2		
	A1 SALT			
	A1 ANHYDRITE			
SILURIAN	GUELPH	286.8		
SILURIAN	ERAMOSA			
SILURIAN	GOAT ISLAND			
SILURIAN	GASPORT/MARTON			
SILURIAN	DECEW	352.1		
SILURIAN	ROCHESTER	359.9		
SILURIAN	IRONDEQUOIT	380.1		
SILURIAN	REYNALES/FOSSIL HILL	381.6		
SILURIAN	THOROLD	383.4		
SILURIAN	GRIMSBY	387.4		
SILURIAN	CABOT HEAD	403.0		
SILURIAN	MANITOULIN			
SILURIAN	WHIRLPOOL	424.8		
ORDOVICIAN	QUEENSTON	428.4		
ORDOVICIAN	BLUE MOUNTAIN - GEORG. BAY			
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG			
ORDOVICIAN	VERULAM			
ORDOVICIAN	KIRKFIELD			
ORDOVICIAN	COBOCONK			
ORDOVICIAN	GULL RIVER			
ORDOVICIAN	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY:

CTY Haldimand TWP Lake Erie BLK 67 TRAC U LOT CON
WELL NAME Pembina #4 L.E. 67-U PERMIT 6504 INIT CLASS Development
OPERATOR Pembina Exploration Co. Ltd. TARGET CLI CUR STATUS GP

DRILLING DATA

CONTRACTOR Pembina Exploration Co. Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 180.7
BOT LOGGER 458.4
ROTRY TOP 53.1 DRILLER 458.5
BOT 458.5 DEEP END
DRLG FLD Gel Chem. PLUG BK

DATES

PERMIT 1984-05-04
SPUD 1984-05-18
COMPTD 1984-05-22
OFFCNF 1984-06-22
WRKOVR
ABNDND

COORDINATES

NORTH m
SOUTH m
EAST m
WEST m
LAT 42-35-25.7
LONG 79-50-13.8

SAMPLES

TOP 138.0
BOT 459.0
TRAY 5660

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
147.0-	Show	
400.8_	Show	
397.5_ 403.5	15.298	4638
408.0_ 414.0	8.227	4742
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_		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	79.0	135.4	CEM	
194	39.0	182.4	CEM	
114	14.0	459.4	CEM	
60	5.0	343.0	HAN	

COMPLETION DATA

GAS 15.298 $10^3 m^3/d$
OIL m^3/d
SIP 4638 kPa
FORM Grimsby
INTRVL 397.5-403.5 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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_		
_		
_		
_		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
350.0 – 431.0	CMPL	Schlumberger
177.5 – 456.2	DLLM	Schlumberger
48.5 – 441.5	CNFD	Schlumberger
_		
_		
_		
_		

PERF ☒ OPEN HOLE ☐
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
147.5 –		SUL
408.0 _ 414.0		SUL
_		
_		
_		

CORING RECORD

INTERVAL	LOCATION	NO	mm
_			
_			
_			
_			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.0		
DRIFT / LAKE BOTTOM	53.1		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE			
COLUMBUS			
LUCAS	117.2		
AMHERSTBURG	129.0		
SYLVANIA			
BOIS BLANC	150.0		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	172.6		
G SHALE	190.9		
F SHALE	196.8		
F SALT			
E CARBONATE	218.7		
D SALT/EQUIVALENT			
C SHALE	255.4		
B MARKER	265.2		
B EQUIVALENT	271.3		
B SALT			
B ANHYDRITE	279.5		
A2 CARBONATE	284.2		
A2 SALT			
SILURIAN: A2 ANHYDRITE	299.2		
A1 CARBONATE	300.3		
A1 SALT			
A1 ANHYDRITE			
GUELPH	304.5		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW	361.5		
ROCHESTER	373.5		
IRONDEQUOIT	388.4		
REYNALES/FOSSIL HILL	390.3		
THOROLD	391.5		
GRIMSBY	392.8		
CABOT HEAD	413.7		
MANITOULIN			
WHIRLPOOL	435.0		
ORDOVICIAN: QUEENSTON	437.0		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Haldimand TWP Lake Erie BLK 68 TRAC J LOT CON
WELL NAME Pembina #4 LE 68-J PERMIT 6505 INIT CLASS DEV
OPERATOR Pembina Exploration Co. Ltd. TARGET CLI CUR STATUS GS-ABD

DRILLING DATA

CONTRACTOR Underwater Gas Developers Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 181.1
BOT LOGGER 428.8
ROTRY TOP 46.4 DRILLER 429.0
BOT 429.0 DEEP END
DRLG FLD Gel Chem & Barite PLUG BK

DATES

PERMIT 1984-05-04
SPUD 1984-05-14
COMPTD 1984-05-16
OFFCNF 1984-06-16
WRKOVR
ABNDND 1984-05-17

COORDINATES

NORTH m
SOUTH m
EAST m
WEST m
LAT 42-38-14.1
LONG 79-45-15.3

SAMPLES

TOP 105.0
BOT 429.0
TRAY 6665

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
368.0 _ 373.0	.637	262
401.0 _ 407.0	.685	290
_		
_		
_		
_		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	104.7	CEM	
178	25.0	160.6	CEM	

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
_		
_		
_		
_		
_		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
225.0 – 411.0	CBLK	Schlumberger
42.0 – 411.9	CNFD	"
159.0 – 426.8	DLLM	"
_		
_		
_		
_		

PERF ☐ OPEN HOLE ☐
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
_		
_		
_		
_		
_		

CORING RECORD

INTERVAL	LOCATION	NO	mm
_			
_			
_			
_			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.4		
DRIFT / LAKE BOTTOM	46.4		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	96.7		
COLUMBUS			
LUCAS	102.5		
AMHERSTBURG	112.8		
SYLVANIA			
BOIS BLANC	126.0		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	144.8		
G SHALE	161.2		
F SHALE	166.7		
F SALT			
E CARBONATE	188.2		
D SALT/EQUIVALENT	224.0		
C SHALE	225.0		
B MARKER	234.3		
B EQUIVALENT			
B SALT			
B ANHYDRITE	250.0		
A2 CARBONATE	254.2		
A2 SALT			
SILURIAN: A2 ANHYDRITE	268.2		
A1 CARBONATE	269.6		
A1 SALT			
A1 ANHYDRITE			
GUELPH	272.0		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW	325.4		
ROCHESTER	340.6		
IRONDEQUOIT	358.2		
REYNALES/FOSSIL HILL	360.3		
THOROLD	362.3		
GRIMSBY	363.5		
CABOT HEAD	383.0		
MANITOULIN			
WHIRLPOOL	403.1		
ORDOVICIAN: QUEENSTON	405.2		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY: Haldimand TWP: Lake Erie BLK: 68 TRAC: Q LOT: CON:
WELL NAME: Pembina #2A LE 68-Q PERMIT: 6506 INIT CLASS: DEV
OPERATOR: Pembina Exploration Co. Ltd. TARGET: CLI CUR STATUS: GP

DRILLING DATA
CONTRACTOR: Pembina Drilling Co. Ltd.
RIG TYPE: ROT DEPTHS
CABLE TOP: KB ELEV: 180.6
BOT: LOGGER: 453.8
ROTRY TOP: 52.6 DRILLER: 453.0
BOT: 453.6 DEEP END:
DRLG FLD: Gel Chem PLUG BK:

DATES
PERMIT: 1984-05-04
SPUD: 1984-06-02
COMPTD: 1984-06-07
OFFCNF: 1984-07-07
WRKOVR:
ABNDND:

COORDINATES
NORTH: m
SOUTH: m
EAST: m
WEST: m
LAT: 42-36-42
LONG: 79-48-46

SAMPLES
TOP: 126.0
BOT: 453.0
TRAY: 5239

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
124.0 –	SHOW	
383.0 – 393.0	7.607	4695
421.0 – 430.0	2.313	5360
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	79.0	122.2	CEM	
194	39.0	176.4	CEM	
114	14.0	449.2	CEM	
60	5.0	438.2	HAN	
		–		
		–		

COMPLETION DATA
GAS: 2.313 $10^3 m^3/d$
OIL: m^3/d
SIP: 5360 kPa
FORM: WHIRLPOOL
INTRVL: 422.5 – 426.0 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
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–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
350.0 – 437.0	CMPL	Schlumberger
48.0 – 437.0	CNFD	"
174.0 – 451.8	DLLM	"
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–		

PERF: ☑ OPEN HOLE: ☐

REMARKS
Lost Hole was drilled at 42° 36' 42" N & 79° 48' 50" W from 84-05-25 to 84-05-27 to a T.D. of 123.0m on permit # 6506

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
325.0 – 342.0		SUL
–		
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–		

CORING RECORD

INTERVAL	LOCATION	NO.	ABAN.
380.0 – 398.2	PRL		Y
422.5 – 428.8	PRL		Y
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–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.0		
DRIFT / LAKE BOTTOM	52.6		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT			
DEVONIAN: HAMILTON			
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	107.0		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS	115.4		
DEVONIAN: AMHERSTBURG	128.3		
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC	140.8		
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS	160.0		
SILURIAN: G SHALE	178.8		
SILURIAN: F SHALE	184.8		
SILURIAN: F SALT			
SILURIAN: E CARBONATE	206.6		
SILURIAN: D SALT/EQUIVALENT	242.7		
SILURIAN: C SHALE	243.8		
SILURIAN: B MARKER	253.0		
SILURIAN: B EQUIVALENT	259.0		
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE	269.1		
SILURIAN: A2 CARBONATE	277.2		
SILURIAN: A2 SALT			
SILURIAN: A2 ANHYDRITE	287.7		
SILURIAN: A1 CARBONATE			
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH	288.8		
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/WIARTON			
SILURIAN: DECEW	346.0		
SILURIAN: ROCHESTER	358.2		
SILURIAN: IRONDEQUOIT	376.2		
SILURIAN: REYNALES/FOSSIL HILL	378.0		
SILURIAN: THOROLD	379.5		
SILURIAN: GRIMSBY	380.8		
SILURIAN: CABOT HEAD	400.0		
SILURIAN: MANITOULIN			
ORDOVICIAN: WHIRLPOOL	422.3		
ORDOVICIAN: QUEENSTON	427.8		
ORDOVICIAN: BLUE MOUNTAIN - GEORG. BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY:

CTY: Haldimand TWP: Lake Erie BLK: 69 TRAC: A LOT: CON:
WELL NAME: Pembina #3 L.E. 69-A PERMIT: 6507 INIT CLASS: DEV
OPERATOR: Pembina Exploration Co. Ltd. TARGET: CLI CUR STATUS: GP

DRILLING DATA
CONTRACTOR: Pembina Exploration Co. Ltd.
RIG TYPE: ROT DEPTHS
CABLE TOP: KB ELEV: 180.9
BOT: LOGGER: 407.8
ROTRY TOP: 41.0 DRILLER: 409.0
BOT: 409.0 DEEP END:
DRLG FLD: Gel. Chem. & Barite PLUG BK: 393.0

DATES
PERMIT: 1984-11-30
SPUD: 1984-05-06
COMPTD: 1984-05-09
OFFCNF: 1984-06-09
WRKOVR:
ABNDND:

COORDINATES
NORTH: m
SOUTH: m
EAST: m
WEST: m
LAT: 42-39-12.4
LONG: 79-40-45.9

SAMPLES
TOP: 99.0
BOT: 409.0
TRAY: 125

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
358.0 – 365.0	10.875	4378
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54	99.3	CEM	
178	25	150.9	CEM	
114	14	404.5	CEM	
60	5	354.7	HAN	

COMPLETION DATA
GAS: 10.875 $10^3 m^3/d$
OIL: m^3/d
SIP: 4378 kPa
FORM: Grimsby
INTRVL: 358.0-365.0 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
300.0 – 393.0	CMPL	Schlumberger
147.5 – 406.3	DLLM	Schlumberger
28.0 – 391.8	CNFD	Schlumberger
–		
–		
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PERF: ☑ OPEN HOLE: ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO.	ABAN.
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GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.2		
DRIFT / LAKE BOTTOM	41.0		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT			
DEVONIAN: HAMILTON			
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	81.6'		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS	86.4		
DEVONIAN: AMHERSTBURG	99.0		
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC	113.3		
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS	129.4		
SILURIAN: G SHALE	145.8		
SILURIAN: F SHALE	150.4		
SILURIAN: F SALT			
SILURIAN: E CARBONATE	172.2		
SILURIAN: D SALT/EQUIVALENT	208.6		
SILURIAN: C SHALE	210.0		
SILURIAN: B MARKER	217.8		
SILURIAN: B EQUIVALENT			
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE	232.3		
SILURIAN: A2 CARBONATE	240.2		
SILURIAN: A2 SALT			
SILURIAN: A2 ANHYDRITE	250.0		
SILURIAN: A1 CARBONATE	251.0		
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH	253.5		
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/WIARTON			
SILURIAN: DECEW	305.8		
SILURIAN: ROCHESTER	317.5		
SILURIAN: IRONDEQUOIT	340.8		
SILURIAN: REYNALES/FOSSIL HILL	343.2		
SILURIAN: THOROLD	345.8		
SILURIAN: GRIMSBY	347.2		
SILURIAN: CABOT HEAD	372.2		
SILURIAN: MANITOULIN			
ORDOVICIAN: WHIRLPOOL	384.5		
ORDOVICIAN: QUEENSTON	388.8		
ORDOVICIAN: BLUE MOUNTAIN - GEORG. BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY:

CTY Haldimand TWP Lake Erie BLK 69 TRAC C LOT CON

WELL NAME Pembina #4 L.E. 69-C PERMIT 6508 INIT CLASS DEV

OPERATOR Pembina Exploration Co. Ltd. TARGET CLI CUR STATUS DH-ABD

DRILLING DATA

CONTRACTOR	Underwater Gas Developers Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	181.1
BOT		LOGGER	416.6
ROTRY TOP	42.6	DRILLER	417.0
BOT	417.0	DEEP END	
DRLG FLD	Gel Chem & Barite	PLUG BK	

DATES

PERMIT	1984-05-04
SPUD	1984-05-11
COMPTD	1984-05-13
OFFCNF	1984-06-13
WRKOVR	
ABNDND	1984-05-14

COORDINATES

NORTH	m	
SOUTH	m	
EAST	m	
WEST	m	
LAT	42-39-13.6	
LONG	79-42-16.0	

SAMPLES

TOP	102.0
BOT	417.0
TRAY	5258

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	102.3	CEM	
178	25.0	161.1	CEM	

COMPLETION DATA

GAS	$10^3 m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
215.0 – 399.6	CBLK	Schlumberger
38.0 – 400.2	CNFD	"
159.0 – 413.7	DLLM	"
–		
–		
–		

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
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CORING RECORD

INTERVAL	LOCATION	NO	Abdn
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.4		
DRIFT / LAKE BOTTOM	42.6		
DEVONIAN			
PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	86.2		
COLUMBUS			
LUCAS	91.5		
AMHERSTBURG	103.4		
SYLVANIA			
BOIS BLANC	114.7		
SPRINGVALE			
ORISKANY			
SILURIAN			
BASS ISLANDS	134.8		
G SHALE	150.2		
F SHALE	156.5		
F SALT			
E CARBONATE	183.8		
D SALT/EQUIVALENT			
C SHALE	215.2		
B MARKER	225.0		
B EQUIVALENT			
B SALT			
B ANHYDRITE	238.8		
A2 CARBONATE	247.5		
A2 SALT			
A2 ANHYDRITE	257.8		
A1 CARBONATE	258.7		
A1 SALT			
A1 ANHYDRITE	261.0		
GUELPH	262.4		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW	312.2		
ROCHESTER	327.0		
IRONDEQUOIT	347.2		
REYNALES/FOSSIL HILL	349.2		
THOROLD	351.2		
GRIMSBY	352.0		
CABOT HEAD	369.0		
MANITOULIN			
WHIRLPOOL	391.0		
ORDOVICIAN			
QUEENSTON	394.0		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Haldimand TWP Lake Erie BLK 69 TRAC Q LOT CON

WELL NAME Pembina #1 LE 69-Q PERMIT 6509 INIT CLASS DEV

OPERATOR Pembina Exploration Co. Ltd. TARGET CLI CUR STATUS DH-ABD

DRILLING DATA

CONTRACTOR	Pembina Drilling Co. Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	180.7
BOT		LOGGER	449.5
ROTRY TOP	52.2	DRILLER	449.1
BOT	449.1	DEEP END	
DRLG FLD		PLUG BK	

DATES

PERMIT	1984-05-04
SPUD	1984-06-10
COMPTD	1984-06-13
OFFCNF	1984-07-13
WRKOVR	
ABNDND	1984-06-14

COORDINATES

NORTH	m	
SOUTH	m	
EAST	m	
WEST	m	
LAT	42-36-42	
LONG	79-43-16	

SAMPLES

TOP	127.0
BOT	449.0
TRAY	11

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
132.0 –	Show	
220.0 –	Show	
295.0 –	Show	
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	71.0	124.6	CEM	
194	39.0	175.6	CEM	

COMPLETION DATA

GAS	$10^3 m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
290.0 – 433.0	CBLK	Schlumberger
33.0 – 432.5	CNFD	"
172.5 – 447.4	DLLM	"
–		
–		
–		

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	Abdn
389.5 – 407.8	PRL		Y
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.0		
DRIFT / LAKE BOTTOM	52.2		
DEVONIAN			
PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	112.6		
COLUMBUS			
LUCAS	121.7		
AMHERSTBURG	130.8		
SYLVANIA			
BOIS BLANC	147.2		
SPRINGVALE			
ORISKANY			
SILURIAN			
BASS ISLANDS	166.2		
G SHALE	188.2		
F SHALE	192.8		
F SALT			
E CARBONATE	210.2		
D SALT/EQUIVALENT			
C SHALE	254.2		
B MARKER			
B EQUIVALENT			
B SALT			
B ANHYDRITE	275.7		
A2 CARBONATE	284.2		
A2 SALT			
A2 ANHYDRITE	294.6		
A1 CARBONATE	295.9		
A1 SALT			
A1 ANHYDRITE	298.2		
GUELPH	300.0		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW	352.7		
ROCHESTER	366.7		
IRONDEQUOIT	384.8		
REYNALES/FOSSIL HILL	386.2		
THOROLD	388.6		
GRIMSBY	389.9		
CABOT HEAD	406.0		
MANITOULIN			
WHIRLPOOL	428.5		
ORDOVICIAN			
QUEENSTON	431.8		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY: Haldimand TWP: Lake Erie BLK: 70 TRAC: D LOT: CON:
WELL NAME: Pembina #4 L.E. 70-D PERMIT: 6557 INIT CLASS: DEV
OPERATOR: Pembina Exploration Co. Ltd. TARGET: CLI CUR STATUS: GP

DRILLING DATA		DATES		COORDINATES		SAMPLES	
CONTRACTOR: Pembina Drilling Co. Ltd.		PERMIT: 1984-07-17		NORTH: m		TOP: 109.0	
RIG TYPE: ROT	DEPTHS	SPUD: 1984-08-03		SOUTH: m		BOT: 423.0	
CABLE TOOL:	KB ELEV: 180.7	COMPTD: 1984-08-07		EAST: m		TRAY: 4283	
BOT:	LOGGER: 424.1	OFFCNF: 1984-09-07		WEST: m			
ROTRY TOP: 38.8	DRILLER: 424.0	WRKOVR:		LAT: 42-39-11.4			
BOT: 424.0	DEEP END:	ABNDND:		LONG: 79.-38-14.0			
DRLG FLD: GEL CHEM	PLUG BK: 407.7						

INITIAL GAS RECORD			CASING AND TUBING RECORD					COMPLETION DATA	
INTERVAL	FLOW	SIP	DIAM	WEIGHT	SET AT	HOW SET	RECOV	GAS: 21.693	$10^3 m^3/d$
165.0 –	Show		273	75.4	106.1	CEM		OIL:	m^3/d
353.0 –	Show		194	39.3	152.4	CEM		SIP: 5129	kPa
370.0 – 376.0	21.693	5129	114	14.1	418.9	CEM		FORM: Grimsby	
–			60	5.9	368.4	HAN		INTRVL: 372.0-374.0	m
–									m
–									m

INITIAL OIL RECORD			LOGGING RECORD			
INTERVAL	FLOW	DENSITY	INTERVAL	TYPE	COMPANY	PERF ☒ OPEN HOLE ☐
–			325.0 – 406.0	CMPL	Schlumberger	REMARKS
–			235.0 – 405.0	CBLK	"	
–			22.5 – 399.0	CNFD	"	
–			148.8 – 422.3	DLLM	"	
–			–			
–			–			

INITIAL WATER RECORD			CORING RECORD			
INTERVAL	STAT LEV	TYPE	INTERVAL	LOCATION	NO	mm
–			–			
–			–			
–			–			
–			–			
–			–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.0		
	DRIFT / LAKE BOTTOM	38.8		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT			
DEVONIAN	HAMILTON			
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE	82.7		
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS	96.2		
DEVONIAN	AMHERSTBURG	110.3		
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	128.4		
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY			
SILURIAN	BASS ISLANDS	137.6		
SILURIAN	G SHALE	152.1		
SILURIAN	F SHALE	157.8		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	180.2		
SILURIAN	D SALT/EQUIVALENT	216.5		
SILURIAN	C SHALE	217.5		
SILURIAN	B MARKER	227.0		
SILURIAN	B EQUIVALENT			
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE	241.7		
SILURIAN	A2 CARBONATE	245.8		
SILURIAN	A2 SALT	259.5		
SILURIAN	A1 CARBONATE			
SILURIAN	A1 SALT			
SILURIAN	A1 ANHYDRITE			
SILURIAN	GUELPH	263.0		
SILURIAN	ERAMOSA			
SILURIAN	GOAT ISLAND			
SILURIAN	GASPORT/WIARTON			
ORDOVICIAN	DECEW	320.1		
ORDOVICIAN	ROCHESTER	332.7		
ORDOVICIAN	IRONDEQUOIT	350.8		
ORDOVICIAN	REYNALES/FOSSIL HILL	353.0		
ORDOVICIAN	THOROLD	356.2		
ORDOVICIAN	GRIMSBY	357.6		
ORDOVICIAN	CABOT HEAD	381.4		
ORDOVICIAN	MANITOULIN			
ORDOVICIAN	WHIRLPOOL	393.2		
ORDOVICIAN	QUEENSTON	398.6		
ORDOVICIAN	BLUE MOUNTAIN - GEORG. BAY			
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG			
ORDOVICIAN	VERULAM			
ORDOVICIAN	KIRKFIELD			
ORDOVICIAN	COBOCONK			
ORDOVICIAN	GULL RIVER			
ORDOVICIAN	SHADOW LAKE			
CAMBRIAN	CAMBRIAN			
PRECAMBRIAN	PRECAMBRIAN			

GEOLOGY BY:

CTY: Haldimand TWP: Lake Erie BLK: 70 TRAC: H LOT: CON:
WELL NAME: Pembina #3 L.E. 70-H PERMIT: 6510 INIT CLASS: DEV
OPERATOR: Pembina Exploration Co. Ltd. TARGET: CLI CUR STATUS: GP

DRILLING DATA		DATES		COORDINATES		SAMPLES	
CONTRACTOR: Pembina Exploration Co. Ltd.		PERMIT: 1984-05-04		NORTH: m		TOP: 123.0	
RIG TYPE: ROT	DEPTHS	SPUD: 1984-05-22		SOUTH: m		BOT: 448.0	
CABLE TOOL:	KB ELEV: 181.1	COMPTD: 1984-05-24		EAST: m		TRAY: 1579	
BOT:	LOGGER: 447.9	OFFCNF: 1984-06-24		WEST: m			
ROTRY TOP: 6.4	DRILLER: 448.0	WRKOVR:		LAT: 42-38-13.0			
BOT: 448.0	DEEP END:	ABNDND:		LONG: 79-37-45.3			
DRLG FLD: Gel Chem & Barite	PLUG BK: 422.4						

INITIAL GAS RECORD			CASING AND TUBING RECORD					COMPLETION DATA	
INTERVAL	FLOW	SIP	DIAM	WEIGHT	SET AT	HOW SET	RECOV	GAS: 1.899	$10^3 m^3/d$
386.0 –	Show		244	54.0	122.7	CEM		OIL:	m^3/d
383.0 – 387.0	1.899	5263	178	25.0	171.8	CEM		SIP: 5263	kPa
–			114	14.0	435.6	CEM		FORM:	
–			60	5.0	381.2	HAN		INTRVL: 384.5-386.5	m
–									m
–									m

INITIAL OIL RECORD			LOGGING RECORD			
INTERVAL	FLOW	DENSITY	INTERVAL	TYPE	COMPANY	PERF ☒ OPEN HOLE ☐
–			330.0 – 422.1	CMPL	Schlumberger	REMARKS
–			170.5 – 445.2	DLLM	Schlumberger	
–			42.0 – 431.2	CNFD	Schlumberger	
–			246.0 – 431.2	CBLK	Schlumberger	
–			–			
–			–			

INITIAL WATER RECORD			CORING RECORD			
INTERVAL	STAT LEV	TYPE	INTERVAL	LOCATION	NO	mm
–			–			
–			–			
–			–			
–			–			
–			–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	35.7		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT			
DEVONIAN	HAMILTON			
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE	110.8		
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS	115.8		
DEVONIAN	AMHERSTBURG	130.1		
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	149.8		
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY			
SILURIAN	BASS ISLANDS	161.0		
SILURIAN	G SHALE	175.0		
SILURIAN	F SHALE	179.6		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	202.2		
SILURIAN	D SALT/EQUIVALENT			
SILURIAN	C SHALE	238.8		
SILURIAN	B MARKER	247.7		
SILURIAN	B EQUIVALENT			
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE	263.6		
SILURIAN	A2 CARBONATE	268.0		
SILURIAN	A2 SALT	279.8		
SILURIAN	A1 CARBONATE	280.8		
SILURIAN	A1 SALT			
SILURIAN	A1 ANHYDRITE			
SILURIAN	GUELPH	282.2		
SILURIAN	ERAMOSA			
SILURIAN	GOAT ISLAND			
SILURIAN	GASPORT/WIARTON			
ORDOVICIAN	DECEW	337.1		
ORDOVICIAN	ROCHESTER	357.6		
ORDOVICIAN	IRONDEQUOIT	371.2		
ORDOVICIAN	REYNALES/FOSSIL HILL	373.5		
ORDOVICIAN	THOROLD	376.0		
ORDOVICIAN	GRIMSBY	377.4		
ORDOVICIAN	CABOT HEAD	397.2		
ORDOVICIAN	MANITOULIN			
ORDOVICIAN	WHIRLPOOL	415.3		
ORDOVICIAN	QUEENSTON	418.7		
ORDOVICIAN	BLUE MOUNTAIN - GEORG. BAY			
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG			
ORDOVICIAN	VERULAM			
ORDOVICIAN	KIRKFIELD			
ORDOVICIAN	COBOCONK			
ORDOVICIAN	GULL RIVER			
ORDOVICIAN	SHADOW LAKE			
CAMBRIAN	CAMBRIAN			
PRECAMBRIAN	PRECAMBRIAN			

GEOLOGY BY:

CTY Haldimand TWP Lake Erie BLK 70 TRAC 1 LOT CON
WELL NAME Pembina #2 L.E. 70-1 PERMIT 6558 INIT CLASS DEV
OPERATOR Pembina Exploration Co. Ltd. TARGET Cli CUR STATUS GP

DRILLING DATA

CONTRACTOR Pembina Drilling Co. Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 180.6
BOT LOGGER 437.5
ROTRY TOP 38.8 DRILLER 437.5
BOT 437.5 DEEP END
DRLG FLD GEL CHEM PLUG BK

DATES

PERMIT 1984-07-17
SPUD 1984-07-24
COMPTD 1984-07-29
OFFCNF 1984-08-29
WRKOVR
ABNDND

COORDINATES

NORTH m
SOUTH m
EAST m
WEST m
LAT 42-38-41.1
LONG 79-35-44.8

SAMPLES

TOP 124.0
BOT 438.0
TRAY 7685

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
125 –	Show	
176 –	Show	
387.5 – 391.0		4615
–		
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–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	71.4	121.9	CEM	
194	39.3	171.6	CEM	
114	14.1	432.0	CEM	
60	5.9	383.2	HAN	

COMPLETION DATA

GAS 10 ^{3}m^3/d
OIL m^3/d
SIP 4615 kPa
FORM Grimsby
INTRVL 387.8-389.5 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
350.0 – 421.0	CMPL	Schlumberger
250.0 – 420.0	CBLK	"
37.0 – 420.6	CEM	"
168.8 – 436.5	DLLM	"
–		
–		
–		

PERF ☐ OPEN HOLE ☐
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	MM
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GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	5.9		
DRIFT / LAKE BOTTOM	38.8		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	108.6		
COLUMBUS			
LUCAS	114.2		
AMHERSTBURG	129.1		
SYLVANIA			
BOIS BLANC	148.7		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	158.5		
G SHALE	170.0		
F SHALE	175.8		
F SALT			
E CARBONATE	198.1		
D SALT/EQUIVALENT	233.8		
C SHALE	234.8		
B MARKER	244.2		
B EQUIVALENT			
B SALT			
B ANHYDRITE	259.3		
A2 CARBONATE	264.0		
A2 SALT			

SILURIAN: A2 ANHYDRITE	276.0		
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH	279.0		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW	333.2		
ROCHESTER	352.8		
IRONDEQUOIT	367.0		
REYNALES/FOSSIL HILL	369.7		
THOROLD	373.0		
GRIMSBY	375.0		
CABOT HEAD	389.6		
MANITOULIN			
WHIRLPOOL	409.2		
ORDOVICIAN: QUEENSTON	414.2		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Haldimand TWP Lake Erie BLK 70 TRAC 1 LOT CON
WELL NAME Pembina #3 L.E. 70-1 PERMIT 6559 INIT CLASS DEV
OPERATOR Pembina Exploration Co. Ltd. TARGET Clinton CUR STATUS GP

DRILLING DATA

CONTRACTOR Pembina Drilling Co. Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 180.7
BOT LOGGER 457.1
ROTRY TOP 47.9 DRILLER 457.7
BOT 457.7 DEEP END
DRLG FLD GEL CHEM PLUG BK 442.1

DATES

PERMIT 1984-07-17
SPUD 1984-07-29
COMPTD 1984-08-03
OFFCNF 1984-09-03
WRKOVR
ABNDND

COORDINATES

NORTH m
SOUTH m
EAST m
WEST m
LAT 42-37-12.0
LONG 79-36-44.7

SAMPLES

TOP 144.0
BOT 456.0
TRAY 1153

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
156.0 –	Show	
394.0 – 409.0	6.747	5191
432.0 – 438.0	0.2	5589
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.4	142.0	CEM	
194	39.3	191.5	CEM	
114	14.1	452.4	CEM	
60	5.9	390.9	HAN	

COMPLETION DATA

GAS 6.747 10 ^{3}m^3/d
OIL m^3/d
SIP 5191 kPa
FORM Grimsby
INTRVL 395.5-396.5 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
350.0 – 440.0	CMPL	Schlumberger
45.0 – 440.2	CNFD	"
191.6 – 455.0	DLLM	"
–		
–		
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PERF ☐ OPEN HOLE ☐
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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–		
–		
–		
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CORING RECORD

INTERVAL	LOCATION	NO	MM
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.0		
DRIFT / LAKE BOTTOM	47.9		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	126.6		
COLUMBUS			
LUCAS	131.5		
AMHERSTBURG	148.5		
SYLVANIA			
BOIS BLANC	166.8		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	175.5		
G SHALE	188.8		
F SHALE	193.6		
F SALT			
E CARBONATE	214.6		
D SALT/EQUIVALENT	251.2		
C SHALE	252.0		
B MARKER	261.8		
B EQUIVALENT			
B SALT			
B ANHYDRITE	277.5		
A2 CARBONATE	282.3		
A2 SALT			

SILURIAN: A2 ANHYDRITE	294.5		
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH	297.2		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW	362.2		
ROCHESTER	370.3		
IRONDEQUOIT	385.3		
REYNALES/FOSSIL HILL	387.5		
THOROLD	390.8		
GRIMSBY	391.8		
CABOT HEAD	407.9		
MANITOULIN			
WHIRLPOOL	432.4		
ORDOVICIAN: QUEENSTON	435.8		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Haldimand TWP Lake Erie BLK 70 TRAC M LOT CON
WELL NAME Pembina #3 LE 70-M PERMIT 6548 INIT CLASS DEV
OPERATOR Pembina Exploration Co. Ltd. TARGET CLI CUR STATUS GP

DRILLING DATA

CONTRACTOR Pembina Exploration Co. Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 180.7
BOT LOGGER 457.0
ROTRY TOP 49.0 DRILLER 457.8
BOT 457.2 DEEP END
DRLG FLD Gel Chem PLUG BK 437.3

DATES

PERMIT 1984-07-04
SPUD 1984-07-17
COMPTD 1984-07-22
OFFCNF 1984-08-22
WRKOVR
ABNDND

COORDINATES

NORTH m
SOUTH m
EAST m
WEST m
LAT 42-37-10
LONG 79-37-45

SAMPLES

TOP 147
BOT 456
TRAY 5334

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
147.0 –	SHOW	
401.0 – 411.0	4.451	5205
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	71.4	142.2	CEM	
194	39.3	192.3	CEM	
114	14.1	449.6	CEM	
60	5.9	398.2	HAN	

COMPLETION DATA

GAS 4.451 $10^3 m^3/d$
OIL m^3/d
SIP 5205 kPa
FORM Grimsby
INTRVL 402.6 – 409.0 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
350.0 – 437.0	CMPL	Schlumberger
272.0 – 440.0	CBLK	"
48.0 – 441.0	CNFD	"
189.5 – 455.8	DLLM	"
–		
–		
–		

PERF ☑ OPEN HOLE ☐
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	MM
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.0		
DRIFT / LAKE BOTTOM	49.0		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	123.8		
COLUMBUS			
LUCAS	128.3		
AMHERSTBURG	143.1		
SYLVANIA			
BOIS BLANC	163.5		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	173.3		
G SHALE	188.4		
F SHALE	193.2		
F SALT			
E CARBONATE	213.5		
D SALT/EQUIVALENT	250.0		
C SHALE	250.8		
B MARKER	261.0		
B EQUIVALENT			
B SALT			
B ANHYDRITE	275.5		
A2 CARBONATE	283.5		
A2 SALT			

SILURIAN: A2 ANHYDRITE	293.7		
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH	294.8		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW	356.7		
ROCHESTER	365.3		
IRONDEQUOIT	385.2		
REYNALES/FOSSIL HILL	386.5		
THOROLD	389.0		
GRIMSBY	391.4		
CABOT HEAD	409.2		
MANITOULIN			
WHIRLPOOL	429.6		
ORDOVICIAN: QUEENSTON	435.0		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Haldimand TWP Lake Erie BLK 70 TRAC N LOT CON
WELL NAME Pembina #2 L.E. 70-N PERMIT 6511 INIT CLASS DEV
OPERATOR Pembina Exploration Co. Ltd. TARGET CLI CUR STATUS GP

DRILLING DATA

CONTRACTOR Underwater Gas Developers
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 181.1
BOT LOGGER 443.8
ROTRY TOP 45.8 DRILLER 444.0
BOT 444.0 DEEP END
DRLG FLD Gel Chem & Barite PLUG BK

DATES

PERMIT 1984-05-04
SPUD
COMPTD 1984-05-20
OFFCNF
WRKOVR
ABNDND

COORDINATES

NORTH m
SOUTH m
EAST m
WEST m
LAT 42-37-44.1
LONG 79-38-45.4

SAMPLES

TOP 124.0
BOT 444.0
TRAY 7216

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
397.0 –	Show	
394.0 – 398.5	6.4	5054
398.5 – 424.0	2.501	
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	124.2	CEM	
178	25.0	179.6	CEM	
114	14.0	438.0	CEM	
60	5.0	414.9	HAN	

COMPLETION DATA

GAS 2.501 $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM Whirlpool
INTRVL 420.5-422.8 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
225.0 – 427.0	CMPL	Schlumberger
25.0 – 427.2	CBLK	Schlumberger
40.7 – 427.0	CNFD	Schlumberger
178.0 – 442.0	DLLM	Schlumberger
–		
–		
–		

PERF ☑ OPEN HOLE ☐
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	MM
–			
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–			
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–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.4		
DRIFT / LAKE BOTTOM	45.8		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	114.0		
COLUMBUS			
LUCAS	118.5		
AMHERSTBURG	132.1		
SYLVANIA			
BOIS BLANC	149.8		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	162.0		
G SHALE	176.4		
F SHALE	181.8		
F SALT			
E CARBONATE	208.5		
D SALT/EQUIVALENT			
C SHALE	240.3		
B MARKER	250.0		
B EQUIVALENT			
B SALT			
B ANHYDRITE	265.0		
A2 CARBONATE	272.4		
A2 SALT			

SILURIAN: A2 ANHYDRITE	282.3		
A1 CARBONATE	283.8		
A1 SALT			
A1 ANHYDRITE			
GUELPH	285.2		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW	344.0		
ROCHESTER	362.2		
IRONDEQUOIT	376.2		
REYNALES/FOSSIL HILL			
THOROLD	380.7		
GRIMSBY	383.0		
CABOT HEAD	402.0		
MANITOULIN			
WHIRLPOOL	420.4		
ORDOVICIAN: QUEENSTON	422.8		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Haldimand TWP Lake Erie BLK 70 TRAC W LOT CON
WELL NAME Pembina #1 LE 70-W PERMIT 6512 INIT CLASS DEV
OPERATOR Pembina Exploration Co. Ltd. TARGET CLI CUR STATUS GP

DRILLING DATA
CONTRACTOR Pembina Exploration Co. Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 180.6
BOT LOGGER 475.2
ROTRY TOP 57.7 DRILLER 475.2
BOT 475.2 DEE^N END
DRLG FLD Gel Chem PLUG BK 462.7

DATES
PERMIT 1984-05-04
SPUD 1984-06-15
COMPTD 1984-06-18
OFFCNF 1984-07-18
WRKOVR
ABNDND

COORDINATES
NORTH m
SOUTH m
EAST m
WEST m
LAT 42-35-42
LONG 79-37-15

SAMPLES
TOP 159.0
BOT 471.0
TRAY 8042

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
408.0 –	SHOW	
405.0 – 412.0	TSTM	5155
427.5 – 433.5	2.020	5076
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.0	157.7	CEM	
194	39.0	210.4	CEM	
114	14.0	472.7	CEM	
60	5.0	424.4	HAN	

COMPLETION DATA
GAS 2.020 $10^3m^3/d$
OIL m^3/d
SIP 5076 kPa
FORM GRIMSBY
INTRVL 429.2 – 432.0 m
m
m
PERF X OPEN HOLE ☐
REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
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–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
375.0 – 462.0	CMPL	Schlumberger
280.0 – 458.2	CBLK	"
49.0 – 458.5	CNFD	"
207.0 – 473.0	DLIM	"
–		
–		
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
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–		
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CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
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–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.0		
DRIFT / LAKE BOTTOM	57.7		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	135.0		
COLUMBUS			
LUCAS	149.2		
AMHERSTBURG	165.4		
SYLVANIA			
BOIS BLANC	186.2		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	197.8		
G SHALE	211.6		
F SHALE	216.0		
F SALT			
E CARBONATE	238.2		
D SALT/EQUIVALENT	273.9		
C SHALE	274.8		
B MARKER	284.8		
B EQUIVALENT			
B SALT			
B ANHYDRITE	300.2		
A2 CARBONATE	308.2		
A2 SALT			
SILURIAN: A2 ANHYDRITE	318.2		
A1 CARBONATE			
A1 SALT			
A1 ANHYDRITE			
GUELPH	319.2		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW			
ROCHESTER	386.6		
IRONDEQUOIT	407.2		
REYNALES/FOSSIL HILL	409.2		
THOROLD	412.0		
GRIMSBY	413.4		
CABOT HEAD	431.0		
MANITOULIN			
WHIRLPOOL	451.6		
ORDOVICIAN: QUEENSTON	455.4		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Norfolk TWP Lake Erie BLK 94 TRAC J LOT CON
WELL NAME Consumers' 13848 L.E. 94-J PERMIT 6467 INIT CLASS DEV
OPERATOR The Consumers' Gas Company Ltd. TARGET CLI CUR STATUS GP

DRILLING DATA
CONTRACTOR Underwater Gas Dev. Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 181.1
BOT LOGGER
ROTRY TOP 21.1 DRILLER 477.0
BOT 477.0 DEEP END
DRLG FLD PLUG BK 462.9

DATES
PERMIT 1984-04-26
SPUD 1984-08-01
COMPTD 1984-08-03
OFFCNF 1984-09-03
WRKOVR
ABNDND

COORDINATES
NORTH m
SOUTH m
EAST m
WEST m
LAT 42-33-07.6
LONG 80-25-33.2

SAMPLES
TOP 126.0
BOT 477.0
TRAY 5663

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
420.0 – 433.0	4.33	5030
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	21.1	HAN	21.1
244	53.6	126.2	CEM	
178	29.8	187.9	CEM	
114	14.4	472.7	CEM	
60	7.0	420.1	HAN	

COMPLETION DATA
GAS 4.3 $10^3m^3/d$
OIL m^3/d
SIP 5030 kPa
FORM Thor-Grimsby
INTRVL 422.4-433.4 m
m
m
PERF ☐ OPEN HOLE ☐
REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.4		
DRIFT / LAKE BOTTOM	21.1		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON			
MARCELLUS			
DUNDEE	126		
COLUMBUS			
LUCAS			
AMHERSTBURG	156		
SYLVANIA			
BOIS BLANC	171		
SPRINGVALE			
ORISKANY	192		
SILURIAN: BASS ISLANDS	196		
G SHALE	222		
F SHALE	228		
F SALT			
E CARBONATE	255		
D SALT/EQUIVALENT	282		
C SHALE	288		
B MARKER	297		
B EQUIVALENT			
B SALT			
B ANHYDRITE	312		
A2 CARBONATE	318		
A2 SALT			
SILURIAN: A2 ANHYDRITE	327		
A1 CARBONATE	330		
A1 SALT			
A1 ANHYDRITE			
GUELPH	333		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW	390		
ROCHESTER	408		
IRONDEQUOIT			
REYNALES/FOSSIL HILL	417		
THOROLD	420		
GRIMSBY	426		
CABOT HEAD	435		
MANITOULIN	453		
WHIRLPOOL			
ORDOVICIAN: QUEENSTON	465		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Norfolk TWP Lake Erie BLK 95 TRAC F LOT CON

WELL NAME Consumers 13852 L.E. 95-F PERMIT 6471 INIT CLASS DEV

OPERATOR The Consumers' Gas Company Ltd. TARGET CLI CUR STATUS GS-Abd

DRILLING DATA		DATES		COORDINATES		SAMPLES	
CONTRACTOR	Underwater Gas Devel. Ltd.	PERMIT	1984-04-26	NORTH	m	TOP	120.0
RIG TYPE	ROT	SPUD	1984-08-08	SOUTH	m	BOT	484.0
CABLE TOP		COMPTD	1984-08-10	EAST	m	TRAY	1235
BOT		OFFCNF	1984-09-10	WEST	m		
ROTRY TOP	25.0	WRKOVR		LAT	42-33-18.9		
BOT	484.0	ABNDND	1984-08-11	LONG	80-34-39.4		
DRLG FLD	Ploybrine						

DEPTHS: KB ELEV 181.2; LOGGER 484.2; DRILLER 484.0; DEEP END; PLUG BK

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
436.0 – 440.0	.85	4964
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	25.0	HAN	25.0
244	53.6	120.4	CEM	
178	29.8	193.3	CEM	

COMPLETION DATA

GAS 10³m³/d; OIL m³/d; SIP kPa; FORM; INTRVL m – m; m – m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
24.0 – 476.0	CNFD	Schlumberger
198.5 – 479.8	DLLM	"
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☐ REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.5		
DRIFT / LAKE BOTTOM	25.0		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT			
DEVONIAN: HAMILTON	99.2		
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	120.7		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS	139.3		
DEVONIAN: AMHERSTBURG	158.0		
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC	176.4		
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY			
SILURIAN: BASS ISLANDS	203.5		
SILURIAN: G SHALE	231.7		
SILURIAN: F SHALE	238.5		
SILURIAN: F SALT			
SILURIAN: E CARBONATE	261.3		
SILURIAN: D SALT/EQUIVALENT			
SILURIAN: C SHALE	297.5		
SILURIAN: B MARKER	305.4		
SILURIAN: B EQUIVALENT	311.0		
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE	319.4		
SILURIAN: A2 CARBONATE	325.7		
SILURIAN: A2 SALT			
SILURIAN: A2 ANHYDRITE	337.0		
SILURIAN: A1 CARBONATE	338.6		
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH	343.6		
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/WIARTON			
SILURIAN: DECEW	411.0		
SILURIAN: ROCHESTER	422.4		
SILURIAN: IRONDEQUOIT			
SILURIAN: REYNALES/FOSSIL HILL	431.8		
SILURIAN: THOROLD	435.0		
SILURIAN: GRIMSBY	436.0		
SILURIAN: CABOT HEAD	443.8		
SILURIAN: MANITOULIN	461.9		
SILURIAN: WHIRLPOOL			
ORDOVICIAN: QUEENSTON	472.9		
ORDOVICIAN: BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Norfolk TWP Lake Erie BLK 95 TRAC I LOT CON

WELL NAME Consumers 13850 L.E. 95-I PERMIT 6469 INIT CLASS DEV

OPERATOR The Consumers' Gas Company Ltd. TARGET CLI CUR STATUS GP

DRILLING DATA		DATES		COORDINATES		SAMPLES	
CONTRACTOR	Underwater Gas Devel Ltd.	PERMIT	1984-04-26	NORTH	m	TOP	118.0
RIG TYPE	ROT	SPUD	1984-08-04	SOUTH	m	BOT	476.0
CABLE TOP		COMPTD	1984-08-06	EAST	m	TRAY	5955
BOT		OFFCNF	1984-09-06	WEST	m		
ROTRY TOP	21.1	WRKOVR		LAT	42-33-29.7		
BOT	476.0	ABNDND		LONG	80-31-32.0		
DRLG FLD	POLYBRINE						

DEPTHS: KB ELEV 181.1; LOGGER 476.3; DRILLER 476.0; DEEP END; PLUG BK 455.9

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
421.0– 433.0	12.886	5065
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–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	21.1	HAN	21.1
244	53.6	118.3	CEM	
178	29.8	187.7	CEM	
114	14.4	464.9	CEM	
60	7.0	419.5	HAN	

COMPLETION DATA

GAS 12886 10³m³/d; OIL m³/d; SIP 5065 kPa; FORM Thor-Grim; INTRVL 423.9-432.8 m; m – m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
17.0 – 468.3	CNFD	Schlumberger
195.0 – 471.8	DLLM	Schlumberger
350.0 – 457.0	CMPL	Schlumberger
–		
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PERF ☒ OPEN HOLE ☐ REMARKS

Spot 46 m³ of 15% HCl acid an 1 L of inhibitor at 435.0

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.4		
DRIFT / LAKE BOTTOM	21.1		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT			
DEVONIAN: HAMILTON	99.3		
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	104.7		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS	130.8		
DEVONIAN: AMHERSTBURG	150.0		
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC	164.3		
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY	184.0		
SILURIAN: BASS ISLANDS	197.4		
SILURIAN: G SHALE	220.8		
SILURIAN: F SHALE	226.6		
SILURIAN: F SALT			
SILURIAN: E CARBONATE	250.7		
SILURIAN: D SALT/EQUIVALENT	287.8		
SILURIAN: C SHALE	289.0		
SILURIAN: B MARKER	297.4		
SILURIAN: B EQUIVALENT	302.6		
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE	309.7		
SILURIAN: A2 CARBONATE	315.5		
SILURIAN: A2 SALT			
SILURIAN: A2 ANHYDRITE	325.4		
SILURIAN: A1 CARBONATE	326.0		
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH	331.0		
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/WIARTON			
SILURIAN: DECEW	395.0		
SILURIAN: ROCHESTER	410.0		
SILURIAN: IRONDEQUOIT			
SILURIAN: REYNALES/FOSSIL HILL	420.0		
SILURIAN: THOROLD	423.2		
SILURIAN: GRIMSBY	425.3		
SILURIAN: CABOT HEAD	433.0		
SILURIAN: MANITOULIN	459.3		
SILURIAN: WHIRLPOOL			
ORDOVICIAN: QUEENSTON	462.5		
ORDOVICIAN: BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY: Norfolk TWP: Lake Erie BLK: 95 TRAC: J LOT: CON:
WELL NAME: Consumers 13880 L.E. 95-J PERMIT: 6587 INIT CLASS: DEV
OPERATOR: The Consumers' Gas Company Ltd. TARGET: CLT CUR STATUS: GS-OS-Abd

DRILLING DATA
CONTRACTOR: Underwater Gas Developers Ltd.
RIG TYPE: ROT DEPTHS
CABLE TOP: KB ELEV: 181.2
BOT: LOGGER: 478.1
ROTRY TOP: 23.1 DRILLER: 478.0
BOT: 478.0 DEEP END:
DRLG FLD: Polybrine PLUG BK:

DATES
PERMIT: 1984-09-14
SPUD: 1984-09-17
COMPTD: 1984-09-20
OFFCNF: 1984-10-20
WRKOVR:
ABNDND: 1984-09-21

COORDINATES
NORTH: m
SOUTH: m
EAST: m
WEST: m
LAT: 42-33-11.6
LONG: 80-30-50.2

SAMPLES
TOP: 114.0
BOT: 474.0
TRAY: 1315

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
438.5 – 441.0	10.685	5030
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	23.1	HAN	23.1
244	53.6	113.1	CEM	
178	29.8	181.6	CEM	

COMPLETION DATA
GAS: $10^3 m^3/d$
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m
m
PERF ( ) OPEN HOLE ( )
REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
22.0 – 469.9	CNFD	Schlumberger
180.0 – 476.9	DLIM	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.5		
	DRIFT / LAKE BOTTOM	23.1		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT			
DEVONIAN	HAMILTON			
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE	109.4		
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS	134.2		
DEVONIAN	AMHERSTBURG	150.7		
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	170.7		
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY	188.8		
SILURIAN	BASS ISLANDS	198.8		
SILURIAN	G SHALE	225.4		
SILURIAN	F SHALE	232.8		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	255.7		
SILURIAN	D SALT/EQUIVALENT	291.3		
SILURIAN	C SHALE	292.4		
SILURIAN	B MARKER	301.2		
SILURIAN	B EQUIVALENT			
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE	316.4		
SILURIAN	A2 CARBONATE	321.4		
SILURIAN	A2 SALT			
	A2 ANHYDRITE	331.4		
	A1 CARBONATE	334.4		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	336.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	399.4		
	ROCHESTER	418.3		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	425.0		
	THOROLD	428.0		
	GRIMSBY	428.6		
	CABOT HEAD	440.8		
	MANITOULIN	463.6		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	467.1		
ORDOVICIAN	BLUE MOUNTAIN - GEORG. BAY			
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG			
ORDOVICIAN	VERULAM			
ORDOVICIAN	KIRKFIELD			
ORDOVICIAN	COBOCONK			
ORDOVICIAN	GULL RIVER			
ORDOVICIAN	SHADOW LAKE			
CAMBRIAN	CAMBRIAN			
PRECAMBRIAN	PRECAMBRIAN			

GEOLOGY BY:

CTY: Norfolk TWP: Lake Erie BLK: 95 TRAC: N LOT: CON:
WELL NAME: Consumers 13851 LE 95-N PERMIT: 6470 INIT CLASS: DEV
OPERATOR: The Consumers' Gas Company Ltd. TARGET: CLT CUR STATUS: GP

DRILLING DATA
CONTRACTOR: Underwater Gas Developers Ltd.
RIG TYPE: ROT DEPTHS
CABLE TOP: KB ELEV: 180.9
BOT: LOGGER: 488.2
ROTRY TOP: 25.2 DRILLER: 488.0
BOT: 488.0 DEEP END:
DRLG FLD: POLYBRINE PLUG BK: 472.5

DATES
PERMIT: 1984-04-26
SPUD: 1984-08-11
COMPTD: 1984-08-13
OFFCNF: 1984-09-13
WRKOVR:
ABNDND:

COORDINATES
NORTH: m
SOUTH: m
EAST: m
WEST: m
LAT: 42-32-13.2
LONG: 80-33-04.9

SAMPLES
TOP: 129.0
BOT: 487.0
TRAY: 1256

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
436.0 – 443.0	.067	4829
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	25.2	HAN	25.2
244	53.6	125.7	CEM	
178	29.8	196.5	CEM	
114	14.4	483.7	CEM	
60	7.0	436.6	HAN	

COMPLETION DATA
GAS: 2.067 $10^3 m^3/d$
OIL: m^3/d
SIP: 4829 kPa
FORM: Thorold-Grimsby
INTRVL: 439.0-441.0 m
m
m
PERF ☒ OPEN HOLE ☐
REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
199.5 – 488.2	DLIM	Schlumberger
371.0 – 472.0	CMPL	"
23.0 – 480.2	CNFD	"
–		
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	25.2		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT			
DEVONIAN	HAMILTON	112.8		
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE	120.8		
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS	145.0		
DEVONIAN	AMHERSTBURG	170.8		
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	189.7		
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY	201.3		
SILURIAN	BASS ISLANDS	208.3		
SILURIAN	G SHALE	233.7		
SILURIAN	F SHALE	240.6		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	263.8		
SILURIAN	D SALT/EQUIVALENT	299.6		
SILURIAN	C SHALE	300.9		
SILURIAN	B MARKER	311.0		
SILURIAN	B EQUIVALENT			
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE	324.8		
SILURIAN	A2 CARBONATE	331.8		
SILURIAN	A2 SALT	338.2		
	A2 ANHYDRITE	341.4		
	A1 CARBONATE	344.4		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	347.2		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	407.2		
	ROCHESTER	423.2		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	434.4		
	THOROLD	437.7		
	GRIMSBY	439.8		
	CABOT HEAD	452.0		
	MANITOULIN	473.4		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	476.8		
ORDOVICIAN	BLUE MOUNTAIN - GEORG. BAY			
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG			
ORDOVICIAN	VERULAM			
ORDOVICIAN	KIRKFIELD			
ORDOVICIAN	COBOCONK			
ORDOVICIAN	GULL RIVER			
ORDOVICIAN	SHADOW LAKE			
CAMBRIAN	CAMBRIAN			
PRECAMBRIAN	PRECAMBRIAN			

GEOLOGY BY:

CTY: Norfolk TWP: Lake Erie BLK: 95 TRAC: R LOT: CON:
WELL NAME: Consumers 13849 L.E. 95-R PERMIT: 6468 INIT CLASS: DEV
OPERATOR: The Consumer's Gas Company Ltd. TARGET: CLI CUR STATUS: GP

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Underwater Gas Developers Ltd.			PERMIT	1984-04-26	NORTH	m	TOP	129.0
RIG TYPE	ROT	DEPTHS		SPUD	1984-06-13	SOUTH	m	BOT	495.0
CABLE TOP		KB ELEV	181.1	COMPTD	1984-06-15	EAST	m	TRAY	5763
BOT		LOGGER	494.8	OFFCNF	1984-07-15	WEST	m		
ROTRY TOP	22.9	DRILLER	495.0	WRKOVR		LAT	42-31-31		
BOT	495.0	DEEP END		ABNDND		LONG	80-32-31		
DRLG FLD	Polybrine	PLUG BK	481.7						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
442.0 – 456.0	35.4	4742
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	22.9	HAN	22.9
244	53.6	127.9	CEM	
178	29.8	202.9	CEM	
114	14.4	491.4	CEM	
60	7.0	441.5	HAN	

COMPLETION DATA

GAS 35. $10^3 m^3/d$
OIL m^3/d
SIP 474.2 kPa
FORM Grimsby
INTRVL 446.5-454.5 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
23.0 – 486.5	CNFD	Schlumberger
210.5 – 491.0	DLLM	"
383.0 – 480.0	CMPL	"
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–		
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PERF ☒ OPEN HOLE ☐

REMARKS

Spot .16 m³ of 15% HCl acid and 1L of inhibitor at 460.6 m K.B.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	MM
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	22.9		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	116.8		
	MARCELLUS			
	DUNDEE	127.9		
	COLUMBUS	166.0		
	LUCAS	157.9		
	AMHERSTBURG	176.7		
	SYLVANIA			
	BOIS BLANC	189.2		
	SPRINGVALE			
	ORISKANY	200.8		
SILURIAN	BASS ISLANDS	214.5		
	G SHALE	241.0		
	F SHALE	246.8		
	F SALT			
	E CARBONATE	272.8		
	D SALT/EQUIVALENT	304.2		
	C SHALE	305.3		
	B MARKER	318.0		
	B EQUIVALENT	323.5		
	B SALT			
	B ANHYDRITE	331.7		
	A2 CARBONATE	338.1		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	349.0		
	A1 CARBONATE	350.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	354.8		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	413.7		
	ROCHESTER	429.0		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	440.4		
	THOROLD	443.9		
	GRIMSBY	446.2		
	CABOT HEAD	457.0		
	MANITOULIN	481.3		
	WHIRLPOOL	485.1		
ORDOVICIAN	QUEENSTON	485.8		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY

CTY: Norfolk TWP: Lake Erie BLK: 96 TRAC: V LOT: CON:
WELL NAME: Consumers 13853 L.E. 96-V PERMIT: 6472 INIT CLASS: DEV
OPERATOR: The Consumers Gas Company Ltd. TARGET: CLI CUR STATUS: GP

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Underwater Gas Developers Ltd.			PERMIT	1984-04-26	NORTH:	m	TOP:	123.0
RIG TYPE	ROT	DEPTHS		SPUD	1984-06-08	SOUTH:	m	BOT:	510.0
CABLE TOP		KB ELEV	181.1	COMPTD	1984-06-10	EAST:	m	TRAY:	4404
BOT		LOGGER	510.2	OFFCNF	1984-07-10	WEST:	m		
ROTRY TOP	24.6	DRILLER	510.0	WRKOVR		LAT:	42-30-17		
BOT	510.0	DEEP END		ABNDND		LONG:	80-36-53		
DRLG FLD	Polybrine	PLUG BK	502.1						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
458.0 – 469.5	3.201	4863
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	24.4	HAN	24.6
244	53.6	123.4	CEM	
178	29.8	199.5	CEM	
114	14.4	507.6	CEM	
60	7.0	455.5	HAN	

COMPLETION DATA

GAS 3.201 $10^3 m^3/d$
OIL m^3/d
SIP 4863 kPa
FORM Thorold/Grimsby
INTRVL 460.0-469.0 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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–		
–		
–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
24.5 – 502.1	CNFD	Schlumberger
209.0 – 509.8	DLLM	"
390.4 – 503.5	CMPL	"
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–		

PERF ☒ OPEN HOLE ☐

REMARKS

Spot .32m³ of 15% HCl acid and 1 l of inhibitor at 470.0m K.B.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	MM
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	24.6		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	123.0		
	MARCELLUS			
	DUNDEE	133.7		
	COLUMBUS			
	LUCAS	158.7		
	AMHERSTBURG	174.4		
	SYLVANIA			
	BOIS BLANC	193.8		
	SPRINGVALE	212.2		
	ORISKANY			
SILURIAN	BASS ISLANDS	227.8		
	G SHALE	257.0		
	F SHALE	264.8		
	F SALT			
	E CARBONATE	288.7		
	D SALT/EQUIVALENT			
	C SHALE	327.0		
	B MARKER	335.4		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	347.4		
	A2 CARBONATE	352.8		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	364.8		
	A1 CARBONATE	366.4		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	369.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	429.5		
	ROCHESTER	445.2		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	456.5		
	THOROLD	459.6		
	GRIMSBY	462.7		
	CABOT HEAD	473.4		
	MANITOULIN	496.5		
	WHIRLPOOL	500.2		
ORDOVICIAN	QUEENSTON	501.4		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY

CTY: Elgin TWP: Lake Erie BLK: 120 TRAC: L LOT: CON:
WELL NAME: Consumers 13856 L.E. 120-L PERMIT: 6475 INIT CLASS: DEV
OPERATOR: The Consumers' Gas Company TARGET: CLI CUR STATUS: GS-Abd

DRILLING DATA
CONTRACTOR: Underwater Gas Devel Ltd.
RIG TYPE: ROT DEPTHS
CABLE TOP: KB ELEV: 181.0
BOT: LOGGER: 529.7
ROTRY TOP: 26.4 DRILLER: 530.0
BOT: 530.0 DEEP END:
DRLG FLD: PLUG BK:

DATES
PERMIT: 1984-04-26
SPUD: 1984-08-27
COMPTD: 1984-08-29
OFFCNF: 1984-09-29
WRKOVR:
ABNOND: 1984-08-29

COORDINATES
NORTH: m
SOUTH: m
EAST: m
WEST: m
LAT: 42-27-49.6
LONG: 80-52-00

SAMPLES
TOP: 117.0
BOT: 528.0
TRAY: 6676

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
385.0 – 392.0	.181	4685
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	26.4	HAN	26.4
244	53.6	116.3	CEM	
178	29.8	215.7	CEM	

COMPLETION DATA
GAS: $10^3 m^3/d$
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
25.0 – 521.5	CNFD	Schlumberger
220.0 – 529.0	DLLM	"
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PERF ☐ OPEN HOLE ☐
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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–		
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–		

CORING RECORD

INTERVAL	LOCATION	NO	ANN
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.5		
	DRIFT / LAKE BOTTOM	26.4		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT			
DEVONIAN	HAMILTON	100.9		
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE	123.2		
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS	148.0		
DEVONIAN	AMHERSTBURG	175.8		
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	199.6		
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY			
SILURIAN	BASS ISLANDS	223.0		
SILURIAN	G SHALE	266.2		
SILURIAN	F SHALE	274.2		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	298.7		
SILURIAN	D SALT/EQUIVALENT	335.1		
SILURIAN	C SHALE	336.3		
SILURIAN	B MARKER	346.7		
SILURIAN	B EQUIVALENT	351.8		
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE	360.2		
SILURIAN	A2 CARBONATE	365.8		
SILURIAN	A2 SALT			
SILURIAN	A2 ANHYDRITE	378.5		
SILURIAN	A1 CARBONATE	380.7		
SILURIAN	A1 SALT			
SILURIAN	A1 ANHYDRITE			
SILURIAN	GUELPH	384.0		
SILURIAN	ERAMOSA			
SILURIAN	GOAT ISLAND	394.0		
SILURIAN	GASPORT/MARTON	419.0		
SILURIAN	DECEW	450.8		
SILURIAN	ROCHESTER	460.6		
SILURIAN	IRONDEQUOIT			
SILURIAN	REYNALES/FOSSIL HILL	478.2		
SILURIAN	THOROLD	481.2		
SILURIAN	GRIMSBY	484.0		
SILURIAN	CABOT HEAD	490.7		
SILURIAN	MANITOULIN	515.0		
SILURIAN	WHIRLPOOL	516.2		
ORDOVICIAN	QUEENSTON	516.6		
ORDOVICIAN	BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG			
ORDOVICIAN	VERULAM			
ORDOVICIAN	KIRKFIELD			
ORDOVICIAN	COBOCONK			
ORDOVICIAN	GULL RIVER			
ORDOVICIAN	SHADOW LAKE			
CAMBRIAN	CAMBRIAN			
PRECAMBRIAN	PRECAMBRIAN			

GEOLOGY BY:

CTY: Elgin TWP: Lake Erie BLK: 120 TRAC: 0 LOT: CON:
WELL NAME: Consumers 13855 L.E. 120-O PERMIT: 6474 INIT CLASS: NPW
OPERATOR: The Consumers' Gas Company Ltd. TARGET: CLI CUR STATUS: OS-GS-Abd

DRILLING DATA
CONTRACTOR: Underwater Gas Devel. Ltd.
RIG TYPE: ROT DEPTHS
CABLE TOP: KB ELEV: 181.2
BOT: LOGGER: 556.4
ROTRY TOP: 27.0 DRILLER: 559.0
BOT: 559.0 DEEP END:
DRLG FLD: Polybrine PLUG BK:

DATES
PERMIT: 1984-04-26
SPUD: 1984-08-30
COMPTD: 1984-09-01
OFFCNF: 1985-09-01
WRKOVR:
ABNOND: 1984-09-01

COORDINATES
NORTH: m
SOUTH: m
EAST: m
WEST: m
LAT: 42-27-08.8
LONG: 80-54-20.1

SAMPLES
TOP: 120.0
BOT: 558.0
TRAY: 217

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	27.0	HAN	27.0
244	53.6	117.6	CEM	
178	29.8	219.6	CEM	

COMPLETION DATA
GAS: $10^3 m^3/d$
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
27.1 – 555.6	CNFD	Schlumberger
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PERF ☐ OPEN HOLE ☐
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	ANN
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.5		
	DRIFT / LAKE BOTTOM	27.0		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POint			
DEVONIAN	HAMILTON			
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE	148.5		
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS	173.0		
DEVONIAN	AMHERSTBURG	190.0		
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	207.8		
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY	228.8		
SILURIAN	BASS ISLANDS	239.2		
SILURIAN	G SHALE	295.8		
SILURIAN	F SHALE	303.9		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	329.0		
SILURIAN	D SALT/EQUIVALENT	364.3		
SILURIAN	C SHALE	365.3		
SILURIAN	B MARKER	374.3		
SILURIAN	B EQUIVALENT	380.4		
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE	389.4		
SILURIAN	A2 CARBONATE	396.3		
SILURIAN	A2 SALT			
SILURIAN	A2 ANHYDRITE	409.4		
SILURIAN	A1 CARBONATE	411.3		
SILURIAN	A1 SALT			
SILURIAN	A1 ANHYDRITE			
SILURIAN	GUELPH	421.7		
SILURIAN	ERAMOSA			
SILURIAN	GOAT ISLAND			
SILURIAN	GASPORT/MARTON			
SILURIAN	DECEW	482.2		
SILURIAN	ROCHESTER	490.8		
SILURIAN	IRONDEQUOIT			
SILURIAN	REYNALES/FOSSIL HILL	507.8		
SILURIAN	THOROLD	510.3		
SILURIAN	GRIMSBY	510.9		
SILURIAN	CABOT HEAD	519.8		
SILURIAN	MANITOULIN	534.2		
SILURIAN	WHIRLPOOL	544.5		
ORDOVICIAN	QUEENSTON	549.2		
ORDOVICIAN	BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG			
ORDOVICIAN	VERULAM			
ORDOVICIAN	KIRKFIELD			
ORDOVICIAN	COBOCONK			
ORDOVICIAN	GULL RIVER			
ORDOVICIAN	SHADOW LAKE			
CAMBRIAN	CAMBRIAN			
PRECAMBRIAN	PRECAMBRIAN			

GEOLOGY BY:

CTY: Elgin TWP: Lake Erie BLK: 121 TRAC: 0 LOT: CON:

WELL NAME: Consumers 13857 L.E. 121- 0 PERMIT: 6476 INIT CLASS: DEV

OPERATOR: The Consumers' Gas Company Ltd. TARGET: CLT CUR STATUS: DH-Abd

DRILLING DATA		DATES		COORDINATES		SAMPLES	
CONTRACTOR: Underwater Gas Devel. Ltd.		PERMIT: 1984-04-26		NORTH: m		TOP: 126.0	
RIG TYPE: ROT	DEPTHS	SPUD: 1984-08-24		SOUTH: m		BOT: 546.0	
CABLE TOP:	KB ELEV: 181.0	COMPTD: 1984-08-26		EAST: m		TRAY: 5256	
BOT:	LOGGER: 546.2	OFFCNF: 1984-09-26		WEST: m			
ROTRY TOP: 26.7	DRILLER: 546.0	WRKOVR:		LAT: 42-27-12.5			
BOT: 546.0	DEEP END:	ABNDND: 1984-08-26		LONG: 80-49-52.0			
DRLG FLD: Polybrine	PLUG BK:						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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–		
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	26.7	HAN	26.7
244	53.6	119.9	CEM	
178	29.8	219.9	CEM	

COMPLETION DATA

GAS: $10^3m^3/d$
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m – m

LOGGING RECORD

INTERVAL	TYPE	COMPANY
24.0 – 539.0	CNFD	Schlumberger
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PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	ANAL
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–			
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–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.5		
	DRIFT / LAKE BOTTOM	26.7		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT			
DEVONIAN	HAMILTON	120.9		
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE	143.4		
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS	167.8		
DEVONIAN	AMHERSTBURG	191.7		
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	209.6		
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY	225.8		
SILURIAN	BASS ISLANDS	242.8		
SILURIAN	G SHALE	284.5		
SILURIAN	F SHALE	292.8		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	316.3		
SILURIAN	D SALT/EQUIVALENT	352.7		
SILURIAN	C SHALE	353.8		
SILURIAN	B MARKER	364.2		
SILURIAN	B EQUIVALENT	369.5		
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE	377.8		
SILURIAN	A2 CARBONATE	384.0		
SILURIAN	A2 SALT			
	A2 ANHYDRITE	397.5		
	A1 CARBONATE	399.8		
	A1 SALT			
	A1 ANHYDRITE			
SILURIAN	GUELPH	404.9		
SILURIAN	ERAMOSA			
SILURIAN	GOAT ISLAND			
SILURIAN	GASPORT/WIARTON	440.0		
SILURIAN	DECEW	466.0		
SILURIAN	ROCHESTER	482.7		
SILURIAN	IRONDEQUOIT			
SILURIAN	REYNALES/FOSSIL HILL	492.8		
SILURIAN	THOROLD	496.2		
SILURIAN	GRIMSBY	497.4		
SILURIAN	CABOT HEAD	508.6		
SILURIAN	MANITOULIN	531.4		
SILURIAN	WHIRLPOOL	533.2		
ORDOVICIAN	QUEENSTON	540.4		
ORDOVICIAN	BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG			
ORDOVICIAN	VERULAM			
ORDOVICIAN	KIRKFIELD			
ORDOVICIAN	COBOCONK			
ORDOVICIAN	GULL RIVER			
ORDOVICIAN	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY:

CTY: Elgin TWP: Lake Erie BLK: 121 TRAC: U LOT: CON:

WELL NAME: Consumers 13876 L.E. 121- U PERMIT: 6591 INIT CLASS: DEV

OPERATOR: The Consumers' Gas Company Ltd. TARGET: CLI CUR STATUS: GP

DRILLING DATA		DATES		COORDINATES		SAMPLES	
CONTRACTOR: Underwater Gas Devel. Ltd.		PERMIT: 1984-09-14		NORTH: m		TOP: 129.0	
RIG TYPE: ROT	DEPTHS	SPUD: 1984-09-24		SOUTH: m		BOT: 549.0	
CABLE TOP:	KB ELEV: 181.3	COMPTD: 1984-09-27		EAST: m		TRAY: 6629	
BOT:	LOGGER: 550.6	OFFCNF: 1984-10-27		WEST: m			
ROTRY TOP: 27.0	DRILLER: 551.0	WRKOVR:		LAT: 42-25-45.6			
BOT: 551.0	DEEP END:	ABNDND:		LONG: 80-45-40.7			
DRLG FLD: POLYBRINE	PLUG BK: 534.1						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
498.0 – 506.5	3965	5361
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	27.0	HAN	27.0
244	53.6	131.4	CEM	
178	29.8	217.8	CEM	
114	14.4	545.5	HAN	
60	7.0	498.7	HAN	

COMPLETION DATA

GAS: 3.965 $10^3m^3/d$
OIL: m^3/d
SIP: 5361 kPa
FORM: Grimsby
INTRVL: 501.8-506.0 m

LOGGING RECORD

INTERVAL	TYPE	COMPANY
445.0 – 534.1	CMPL	Schlumberger
222.0 – 550.2	DLLM	"
27.0 – 549.5	CNFD	"
–		
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–		

PERF ☒ OPEN HOLE ☐

REMARKS: Spot 0.32 m3 of 15% HCl and 2 litres of inhibitor at 507.0 metres

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	ANAL
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–			
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–			
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.6		
	DRIFT / LAKE BOTTOM	27.0		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT			
DEVONIAN	HAMILTON	131.4		
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE	165.0		
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS	186.5		
DEVONIAN	AMHERSTBURG	208.6		
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	221.0		
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY	245.8		
SILURIAN	BASS ISLANDS	252.4		
SILURIAN	G SHALE	290.0		
SILURIAN	F SHALE	297.6		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	321.4		
SILURIAN	D SALT/EQUIVALENT	356.8		
SILURIAN	C SHALE	358.0		
SILURIAN	B MARKER	371.2		
SILURIAN	B EQUIVALENT	377.3		
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE	385.3		
SILURIAN	A2 CARBONATE	390.8		
SILURIAN	A2 SALT			
	A2 ANHYDRITE	403.4		
	A1 CARBONATE	405.0		
	A1 SALT			
	A1 ANHYDRITE	408.0		
SILURIAN	GUELPH	408.8		
SILURIAN	ERAMOSA			
SILURIAN	GOAT ISLAND			
SILURIAN	GASPORT/WIARTON			
SILURIAN	DECEW	468.7		
SILURIAN	ROCHESTER	485.2		
SILURIAN	IRONDEQUOIT			
SILURIAN	REYNALES/FOSSIL HILL	496.8		
SILURIAN	THOROLD	499.8		
SILURIAN	GRIMSBY	500.6		
SILURIAN	CABOT HEAD	511.0		
SILURIAN	MANITOULIN	537.0		
SILURIAN	WHIRLPOOL	541.1		
ORDOVICIAN	QUEENSTON	542.2		
ORDOVICIAN	BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG			
ORDOVICIAN	VERULAM			
ORDOVICIAN	KIRKFIELD			
ORDOVICIAN	COBOCONK			
ORDOVICIAN	GULL RIVER			
ORDOVICIAN	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY:

CTY Norfolk TWP Lake Erie BLK 122 TRAC R LOT CON

WELL NAME Consumers 13858 L.E. 122-R PERMIT 6477 INIT CLASS DEV

OPERATOR The Consumers' Gas Company Ltd. TARGET CLI CUR STATUS DH-Abd

DRILLING DATA

CONTRACTOR Underwater Gas Devel. Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 181.0
BOT LOGGER 543.6
ROTRY TOP 26.9 DRILLER 542.0
BOT 542.0 DEEP END
DRLG FLD Polybrine PLUG BK

DATES

PERMIT 1984-04-26
SPUD 1984-08-21
COMPTD 1984-08-24
OFFCNF 1984-09-24
WRKOVR
ABNDND 1984-08-24

COORDINATES

NORTH: m
SOUTH: m
EAST: m
WEST: m
LAT 42-26-28.7
LONG 80-42-42.4

SAMPLES

TOP 132.0
BOT 540.0
TRAY 5287

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	26.9	HAN	26.9
244	53.6	128.5	CEM	
178	29.8	221.0	CEM	

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
24.0 – 536.0	CNFD	Schlumberger
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PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.5		
DRIFT / LAKE BOTTOM	26.9		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT			
DEVONIAN: HAMILTON	128.7		
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	156.7		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS	179.5		
DEVONIAN: AMHERSTBURG	198.6		
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC	219.8		
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY	235.8		
SILURIAN: BASS ISLANDS	245.4		
SILURIAN: G SHALE	283.3		
SILURIAN: F SHALE	290.8		
SILURIAN: F SALT			
SILURIAN: E CARBONATE	314.4		
SILURIAN: D SALT/EQUIVALENT	351.7		
SILURIAN: C SHALE	352.8		
SILURIAN: B MARKER	361.6		
SILURIAN: B EQUIVALENT	367.8		
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE	375.7		
SILURIAN: A2 CARBONATE	382.5		
SILURIAN: A2 SALT	391.5		
SILURIAN: A2 ANHYDRITE	394.3		
SILURIAN: A1 CARBONATE	396.0		
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH	399.0		
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/WIARTON	433.5		
SILURIAN: DECEW	459.8		
SILURIAN: ROCHESTER	475.0		
SILURIAN: IRONDEQUOIT			
SILURIAN: REYNALES/FOSSIL HILL	486.6		
SILURIAN: THOROLD	490.2		
SILURIAN: GRIMSBY	492.3		
SILURIAN: CABOT HEAD	506.8		
SILURIAN: MANITOULIN	527.8		
SILURIAN: WHIRLPOOL	531.8		
ORDOVICIAN: QUEENSTON	533.2		
ORDOVICIAN: BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY:

CTY Norfolk TWP Lake Erie BLK 123 TRAC D LOT CON:

WELL NAME Consumers' 13854 LE 123-D PERMIT 6473 INIT CLASS DEV

OPERATOR The Consumers' Gas Company Ltd. TARGET CLI CUR STATUS GP

DRILLING DATA

CONTRACTOR Underwater Gas Devel. Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 181.2
BOT LOGGER 521.1
ROTRY TOP 25.6 DRILLER 521.0
BOT 521.0 DEEP END
DRLG FLD Polybrine PLUG BK 510.2

DATES

PERMIT 1984-04-26
SPUD 1984-08-15
COMPTD 1984-08-18
OFFCNF 1984-09-18
WRKOVR
ABNDND

COORDINATES

NORTH: m
SOUTH: m
EAST: m
WEST: m
LAT 42-29-15.8
LONG 80-38-23.3

SAMPLES

TOP 135.0
BOT 521.0
TRAY 5888

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
469.0 – 480.0	1.289	4650
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	25.6	HAN	25.6
244	53.6	133.5	CEM	
178	29.8	204.0	CEM	
114	14.4	518.7	CEM	
60	7.0	471.2	HAN	

COMPLETION DATA

GAS 1.289 $10^3 m^3/d$
OIL m^3/d
SIP 4650 kPa
FORM Grimsby
INTRVL 476.3-478.3 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
422.0 – 508.0	CMPL	Schlumberger
24.0 – 513.0	CNFD	"
209.0 – 517.2	DLLM	"
–		
–		
–		
–		

PERF ☒ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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–		
–		
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–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
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–			
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–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.5		
DRIFT / LAKE BOTTOM	25.6		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT			
DEVONIAN: HAMILTON	121.3		
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	143.2		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS	166.9		
DEVONIAN: AMHERSTBURG	190.0		
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC	203.8		
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY	222.0		
SILURIAN: BASS ISLANDS	228.8		
SILURIAN: G SHALE	264.9		
SILURIAN: F SHALE	272.2		
SILURIAN: F SALT			
SILURIAN: E CARBONATE	295.0		
SILURIAN: D SALT/EQUIVALENT	331.8		
SILURIAN: C SHALE	332.8		
SILURIAN: B MARKER	343.4		
SILURIAN: B EQUIVALENT	349.1		
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE	356.8		
SILURIAN: A2 CARBONATE	362.5		
SILURIAN: A2 SALT	373.0		
SILURIAN: A2 ANHYDRITE	375.5		
SILURIAN: A1 CARBONATE	377.3		
SILURIAN: A1 SALT			
SILURIAN: A1 ANHYDRITE			
SILURIAN: GUELPH	381.0		
SILURIAN: ERAMOSA			
SILURIAN: GOAT ISLAND			
SILURIAN: GASPORT/WIARTON			
SILURIAN: DECEW	440.5		
SILURIAN: ROCHESTER	455.7		
SILURIAN: IRONDEQUOIT			
SILURIAN: REYNALES/FOSSIL HILL	467.3		
SILURIAN: THOROLD	470.7		
SILURIAN: GRIMSBY	473.0		
SILURIAN: CABOT HEAD	486.0		
SILURIAN: MANITOULIN	506.8		
SILURIAN: WHIRLPOOL	510.8		
ORDOVICIAN: QUEENSTON	511.8		
ORDOVICIAN: BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY:

CTY Norfolk TWP Lake Erie BLK 123 TRAC P LOT CON
WELL NAME Consumers 13859 L.E. 123-P PERMIT 6478 INIT CLASS DEV
OPERATOR The Consumers' Gas Company Ltd. TARGET CLI CUR STATUS DRY-Abd

DRILLING DATA
CONTRACTOR Underwater Gas Devel. Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 181.0
BOT LOGGER 547.2
ROTRY TOP 26.5 DRILLER 547.0
BOT 547.0 DEEP END
DRLG FLD Polybrine PLUG BK

DATES
PERMIT 1984-04-26
SPUD 1984-08-19
COMPTD 1984-08-21
OFFCNF 1984-09-21
WRKOVR
ABNDND 1984-08-21

COORDINATES
NORTH m
SOUTH m
EAST m
WEST m
LAT 42-26-14.6
LONG 80-39-30.3

SAMPLES
TOP 135.0
BOT 546.0
TRAY 238

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	26.5	HAN	26.5
244	53.6	136.0	CEM	
178	29.8	221.3	CEM	

COMPLETION DATA
GAS $10^3m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
23.0 – 539.0	CNFD	Schlumberger
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PERF ☐ OPEN HOLE ☐
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	ANA
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GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.4		
DRIFT / LAKE BOTTOM	26.5		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON	128.5		
MARCELLUS			
DUNDEE	162.7		
COLUMBUS			
LUCAS	182.3		
AMHERSTBURG	206.8		
SYLVANIA			
BOIS BLANC	226.6		
SPRINGVALE			
ORISKANY	238.1		
SILURIAN: BASS ISLANDS	254.8		
G SHALE	288.4		
F SHALE	295.5		
F SALT			
E CARBONATE	317.7		
D SALT/EQUIVALENT	350.0		
C SHALE	353.9		
B MARKER	363.3		
B EQUIVALENT	370.4		
B SALT			
B ANHYDRITE	377.8		
A2 CARBONATE	385.7		
A2 SALT			
A2 ANHYDRITE	396.3		
A1 CARBONATE	398.8		
A1 SALT			
A1 ANHYDRITE			
GUELPH	402.3		
ERAMOSA			
GOAT ISLAND			
GASPORT/WARTON			
DECEW	458.5		
ROCHESTER	478.8		
IRONDEQUOIT			
REYNALES/FOSSIL HILL	491.6		
THOROLD	495.2		
GRIMSBY	496.8		
CABOT HEAD	512.0		
MANITOULIN	533.2		
WHIRLPOOL	537.4		
ORDOVICIAN: QUEENSTON	538.4		
BLUE MOUNTAIN GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Norfolk TWP Lake Erie BLK 123 TRAC S LOT CON:
WELL NAME Consumers 13879 L.E. 123-S PERMIT 6588 INIT CLASS DEV
OPERATOR The Consumers' Gas Company Ltd. TARGET CLI CUR STATUS DH-Abd

DRILLING DATA
CONTRACTOR Underwater Gas Developers Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 181.3
BOT LOGGER 545.0
ROTRY TOP 26.4 DRILLER 545.0
BOT 545.0 DEEP END
DRLG FLD Polybrine PLUG BK

DATES
PERMIT 1984-09-14
SPUD 1984-09-21
COMPTD 1984-09-23
OFFCNF 1984-10-23
WRKOVR
ABNDND 1984-09-23

COORDINATES
NORTH m
SOUTH m
EAST m
WEST m
LAT 42-26-18.8
LONG 80-36-25.3

SAMPLES
TOP 126.0
BOT 545.0
TRAY 1149

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	26.4	HAN	26.4
244	53.6	126.9	CEM	
178	29.8	222.3	CEM	

COMPLETION DATA
GAS $10^3m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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–		
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–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
26.5 – 536.1	CNFD	Schlumberger
230.0 – 541.0	DLLM	"
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PERF ☐ OPEN HOLE ☐
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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–		

CORING RECORD

INTERVAL	LOCATION	NO	ANA
–			
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–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.6		
DRIFT / LAKE BOTTOM	26.4		
DEVONIAN: PORT LAMBTON			
KETTLE POINT			
HAMILTON	127.5		
MARCELLUS	141.5		
DUNDEE	155.8		
COLUMBUS			
LUCAS	173.6		
AMHERSTBURG	199.4		
SYLVANIA			
BOIS BLANC	211.7		
SPRINGVALE			
ORISKANY			
SILURIAN: BASS ISLANDS	234.0		
G SHALE	255.5		
F SHALE	263.0		
F SALT			
E CARBONATE	286.4		
D SALT/EQUIVALENT	321.7		
C SHALE	322.8		
B MARKER	333.7		
B EQUIVALENT			
B SALT			
B ANHYDRITE	346.5		
A2 CARBONATE	352.4		
A2 SALT			
A2 ANHYDRITE	366.6		
A1 CARBONATE	370.9		
A1 SALT			
A1 ANHYDRITE			
GUELPH	375.0		
ERAMOSA			
GOAT ISLAND			
GASPORT/WARTON			
DECEW	450.0		
ROCHESTER	473.7		
IRONDEQUOIT			
REYNALES/FOSSIL HILL	486.5		
THOROLD	490.3		
GRIMSBY	491.3		
CABOT HEAD	500.4		
MANITOULIN	529.0		
WHIRLPOOL	532.4		
ORDOVICIAN: QUEENSTON	534.7		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY: Norfolk TWP: Lake Erie BLK: 123 TRAC: V LOT: CON:
WELL NAME: Consumers' 13860 LE 123-V PERMIT: 6479 INIT CLASS: DEV
OPERATOR: The Consumers' Gas Company Ltd. TARGET: CLI CUR STATUS: GP

DRILLING DATA

CONTRACTOR: Underwater Gas Developers Ltd.
RIG TYPE: ROT DEPTHS
CABLE TOP: KB ELEV: 181.2
BOT: LOGGER: 552.6
ROTRY TOP: 27.3 DRILLER: 552.0
BOT: 552.0 DEEP END:
DRLG FLD: Polybrine PLUG BK: 536.8

DATES

PERMIT: 1984-04-26
SPUD: 1984-06-20
COMPTD: 1984-06-22
OFFCNF: 1984-07-22
WRKOVR:
ABNDND:

COORDINATES

NORTH: m
SOUTH: m
EAST: m
WEST: m
LAT: 42-25-27
LONG: 80-36-32

SAMPLES

TOP: 141.0
BOT: 552.0
TRAY: 5276

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
497.0 – 503.0	6.06	5313
–		
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–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	27.3	HAN	27.3
244	53.6	140.2	CEM	
178	29.8	205.1	CEM	
114	14.4	547.2	CEM	
60	7.0	494.3	HAN	
–				

COMPLETION DATA

GAS: 6.06 $10^3 m^3/d$
OIL: m^3/d
SIP: 5313 kPa
FORM: Grimsby
INTRVL: 500.5-502.3 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
27.0 – 551.6	CNFD	Schlumberger
209.0 – 552.2	DLLM	"
421.5 – 538.4	CNPL	"
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PERF ☒ OPEN HOLE ☐

REMARKS: Spot 0.2m³ of 15% HCl acid and 2L of inhibitor at 500.0m

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.5		
DRIFT / LAKE BOTTOM	27.3		
PORT LAMBTON			
KETTLE POINT			
HAMILTON	140.0		
MARCELLUS			
DUNDEE	166.5		
COLUMBUS			
LUCAS	188.0		
AMHERSTBURG	211.0		
SYLVANIA			
BOIS BLANC	223.7		
SPRINGVALE			
ORISKANY			
BASS ISLANDS	237.6		
G SHALE	259.4		
F SHALE	266.0		
F SALT			
E CARBONATE	289.3		
D SALT/EQUIVALENT			
C SHALE	326.5		
B MARKER	342.0		
B EQUIVALENT			
B SALT			
B ANHYDRITE	356.0		
A2 CARBONATE	360.5		
A2 SALT			
A2 ANHYDRITE			
A1 CARBONATE	370.3		
A1 SALT			
A1 ANHYDRITE			
GUELPH	376.8		
ERAMOSA			
GOAT ISLAND			
GASPORT/AMHERSTBURG			
DECEW	458.4		
ROCHESTER	481.5		
IRONDEQUOIT			
REYNALES/FOSSIL HILL	495.3		
THOROLD	498.9		
GRIMSBY	500.4		
CABOT HEAD	515.0		
MANITOULIN	536.4		
WHIRLPOOL			
QUEENSTON	541.3		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY:

CTY: Norfolk TWP: Lake Erie BLK: 153 TRAC: C LOT: CON:
WELL NAME: Consumers 13861 LE 153-C PERMIT: 6480 INIT CLASS: DEV
OPERATOR: The Consumers' Gas Company Ltd. TARGET: CLI CUR STATUS: GS-ABD

DRILLING DATA

CONTRACTOR: Underwater Gas Developers Ltd.
RIG TYPE: ROT DEPTHS
CABLE TOP: KB ELEV: 181.3
BOT: LOGGER: 555.8
ROTRY TOP: 20.2 DRILLER: 556.0
BOT: 556.0 DEEP END:
DRLG FLD: Polybrine PLUG BK:

DATES

PERMIT: 1984-04-26
SPUD: 1984-06-16
COMPTD: 1984-06-19
OFFCNF: 1984-07-19
WRKOVR:
ABNDND: 1984-06-19

COORDINATES

NORTH: m
SOUTH: m
EAST: m
WEST: m
LAT: 42-24-49
LONG: 80-32-45

SAMPLES

TOP: 132.0
BOT: 555.0
TRAY: 29

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
502.0 – 520.5	.476	5125
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	20.2	HAN	20.2
244	53.6	130.2	CEM	
178	29.8	226.0	CEM	
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–				

COMPLETION DATA

GAS: $10^3 m^3/d$
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
26.4 – 547.5	CNFD	Schlumberger
229.0 – 555.5	DLLM	"
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PERF ☐ OPEN HOLE ☐

REMARKS:

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
405.0 –		SUL
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.6		
DRIFT / LAKE BOTTOM	20.2		
PORT LAMBTON			
KETTLE POINT	105.0		
HAMILTON	121.0		
MARCELLUS			
DUNDEE	179.2		
COLUMBUS			
LUCAS	198.8		
AMHERSTBURG	214.4		
SYLVANIA			
BOIS BLANC	234.4		
SPRINGVALE			
ORISKANY			
BASS ISLANDS	250.4		
G SHALE	283.8		
F SHALE	291.1		
F SALT			
E CARBONATE	314.0		
D SALT/EQUIVALENT			
C SHALE	350.5		
B MARKER	359.6		
B EQUIVALENT	366.0		
B SALT			
B ANHYDRITE	373.3		
A2 CARBONATE	379.2		
A2 SALT			
A2 ANHYDRITE	387.5		
A1 CARBONATE	389.0		
A1 SALT			
A1 ANHYDRITE			
GUELPH	393.6		
ERAMOSA			
GOAT ISLAND			
GASPORT/AMHERSTBURG			
DECEW	465.0		
ROCHESTER	486.3		
IRONDEQUOIT			
REYNALES/FOSSIL HILL			
THOROLD	503.8		
GRIMSBY	505.7		
CABOT HEAD	519.6		
MANITOULIN	541.4		
WHIRLPOOL			
QUEENSTON	548.1		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY:

CTY: Norfolk TWP: Lake Erie BLK: 154 TRAC: 0 LOT: CON:
WELL NAME: Consumers 13863 L.E. 154-0 PERMIT: 6482 INIT CLASS: DEV
OPERATOR: The Consumers' Gas Company Ltd. TARGET: CLI CUR STATUS: DRY-ABD

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Underwater Gas Developers Ltd.			PERMIT	1984-04-26	NORTH:	m	TOP	126.0
RIG TYPE	ROT	DEPTHS		SPUD	1984-06-26	SOUTH:	m	BOT	588.0
CABLE TOP		KB ELEV	181.1	COMPTD	1984-06-28	EAST:	m	TRAY	225
BOT		LOGGER	587.8	OFFCNF	1984-07-28	WEST:	m		
ROTRY TOP	21.5	DRILLER	588.0	WRKOVR		LAT	42-22-03		
BOT	588.0	DEEP END		ABNDND	1984-06-[illegible]	LONG	80-39-33		
DRLG FLD	Polybrine	PLUG BK							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
533.0 – 552.0	Trace	5099
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	21.5	HAN	21.5
244	53.6	174.9	CEM	
178	29.8	221.9	CEM	

COMPLETION DATA

GAS	$10^3m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
28.4 – 579.5	CNFD	Schlumberger
228.6 – 584.5	DLLM	"
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PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	21.5		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT	106.3		
DEVONIAN	HAMILTON	146.7		
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE	200.6		
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS	217.8		
DEVONIAN	AMHERSTBURG	242.0		
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	257.9		
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY			
SILURIAN	BASS ISLANDS	271.7		
SILURIAN	G SHALE	305.5		
SILURIAN	F SHALE	312.9		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	336.5		
SILURIAN	D SALT/EQUIVALENT			
SILURIAN	C SHALE	373.7		
SILURIAN	B MARKER	382.3		
SILURIAN	B EQUIVALENT	388.0		
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE	395.0		
SILURIAN	A2 CARBONATE	401.7		
SILURIAN	A2 SALT			
SILURIAN	A2 ANHYDRITE			
SILURIAN	A1 CARBONATE	411.0		
SILURIAN	A1 SALT			
SILURIAN	A1 ANHYDRITE			
SILURIAN	GUELPH	416.3		
SILURIAN	ERAMOSA			
SILURIAN	GOAT ISLAND			
SILURIAN	GASPORT/WARTON			
SILURIAN	DECEW	492.7		
SILURIAN	ROCHESTER	518.3		
SILURIAN	IRONDEQUOIT			
SILURIAN	REYNALES/FOSSIL HILL	532.0		
SILURIAN	THOROLD	535.9		
SILURIAN	GRIMSBY	541.6		
SILURIAN	CABOT HEAD	551.4		
SILURIAN	MANITOULIN	577.5		
SILURIAN	WHIRLPOOL	580.3		
ORDOVICIAN	QUEENSTON	582.1		
ORDOVICIAN	BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG			
ORDOVICIAN	VERULAM			
ORDOVICIAN	KIRKFIELD			
ORDOVICIAN	COBOCONK			
ORDOVICIAN	GULL RIVER			
ORDOVICIAN	SHADOW LAKE			
CAMBRIAN	CAMBRIAN			
PRECAMBRIAN	PRECAMBRIAN			

GEOLOGY BY:

CTY: Norfolk TWP: Lake Erie BLK: 154 TRAC: S LOT: CON:
WELL NAME: Consumers 13862 LE 154-S PERMIT: 6481 INIT CLASS: DEV
OPERATOR: The Consumers' Gas Company Ltd. TARGET: CLI CUR STATUS: DRY-ABD

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Underwater Gas Developers Ltd.			PERMIT	1984-04-26	NORTH:	m	TOP	120.0
RIG TYPE	ROT	DEPTHS		SPUD	1984-06-23	SOUTH:	m	BOT	594.4
CABLE TOP		KB ELEV	181.1	COMPTD	1984-06-25	EAST:	m	TRAY	5269
BOT		LOGGER	594.3	OFFCNF	1984-07-25	WEST:	m		
ROTRY TOP	22.0	DRILLER	595.0	WRKOVR		LAT	42-21-49		
BOT	595.0	DEEP END		ABNDND	1984-06-26	LONG	80-36-21		
DRLG FLD	Polybrine	PLUG BK							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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–		
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	22.0	HAN	22.0
244	53.6	120.9	CEM	
178	29.8	226.5	CEM	

COMPLETION DATA

GAS	$10^3m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
24.5 – 568.5	CNFD	Schlumberger
230.7 – 594.6	DLLM	"
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–		
–		

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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–		
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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–			
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–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	22.0		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT	106.6		
DEVONIAN	HAMILTON	150.8		
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE	208.2		
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS	225.5		
DEVONIAN	AMHERSTBURG	250.8		
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	263.3		
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY			
SILURIAN	BASS ISLANDS	283.5		
SILURIAN	G SHALE	312.5		
SILURIAN	F SHALE	320.0		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	343.8		
SILURIAN	D SALT/EQUIVALENT			
SILURIAN	C SHALE	380.3		
SILURIAN	B MARKER	387.5		
SILURIAN	B EQUIVALENT	394.8		
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE	402.4		
SILURIAN	A2 CARBONATE	408.0		
SILURIAN	A2 SALT			
SILURIAN	A2 ANHYDRITE			
SILURIAN	A1 CARBONATE	418.7		
SILURIAN	A1 SALT			
SILURIAN	A1 ANHYDRITE			
SILURIAN	GUELPH	423.0		
SILURIAN	ERAMOSA			
SILURIAN	GOAT ISLAND			
SILURIAN	GASPORT/WARTON			
SILURIAN	DECEW	492.5		
SILURIAN	ROCHESTER	519.2		
SILURIAN	IRONDEQUOIT			
SILURIAN	REYNALES/FOSSIL HILL	532.5		
SILURIAN	THOROLD	536.4		
SILURIAN	GRIMSBY	538.8		
SILURIAN	CABOT HEAD	552.8		
SILURIAN	MANITOULIN			
SILURIAN	WHIRLPOOL	574.2		
ORDOVICIAN	QUEENSTON	581.8		
ORDOVICIAN	BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG			
ORDOVICIAN	VERULAM			
ORDOVICIAN	KIRKFIELD			
ORDOVICIAN	COBOCONK			
ORDOVICIAN	GULL RIVER			
ORDOVICIAN	SHADOW LAKE			
CAMBRIAN	CAMBRIAN			
PRECAMBRIAN	PRECAMBRIAN			

GEOLOGY BY:

CTY Elgin TWP Lake Erie BLK 156 TRAC P LOT CON
WELL NAME Consumers 13865 L.E. 156-P PERMIT 6484 INIT CLASS DEV
OPERATOR The Consumers' Gas Company Ltd. TARGET CLI CUR STATUS CP

DRILLING DATA

CONTRACTOR Underwater Gas Devel. Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 180.4
BOT LOGGER 590.5
ROTRY TOP 28.0 DRILLER 590.0
BOT 590.0 DEEP END
DRLG FLD POLYBRINE PLUG BK 576.5

DATES

PERMIT 1984-04-26
SPUD 1984-07-25
COMPTD 1984-07-27
OFFCNF 1984-08-27
WRKOVR
ABNDND

COORDINATES

NORTH m
SOUTH m
EAST m
WEST m
LAT 42-21-29.1
LONG 80-49-30.8

SAMPLES

TOP 105.0
BOT 590.0
TRAY 256

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
537.0 – 546.9	5.041	5595
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–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	28.0	HAN	28.0
244	53.6	101.4	CEM	
178	29.8	221.5	CEM	
114	14.4	586.0	CEM	
60	7.0	534.8	HAN	

COMPLETION DATA

GAS 5.041 $10^3 m^3/d$
OIL m^3/d
SIP 5595 kPa
FORM Thor-Grib
INTRVL 538.6-544.1 m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
226.0 – 586.4	DLLM	Schlumberger
26.0 – 582.5	CNFD	"
499.0 – 575.0	CMPL	"
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☐
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	m
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.4		
DRIFT / LAKE BOTTOM	28.0		
DEVONIAN: PORT LAMBTON			
KETTLE POINT	101.5		
HAMILTON	136.3		
MARCELLUS			
DUNDEE	189.6		
COLUMBUS			
LUCAS	211.7		
AMHERSTBURG	220.0		
SYLVANIA			
BOIS BLANC	247.8		
SPRINGVALE			
ORISKANY	264.3		
SILURIAN: BASS ISLANDS	268.0		
G SHALE	304.8		
F SHALE	312.4		
F SALT			
E CARBONATE	333.5		
D SALT/EQUIVALENT	368.6		
C SHALE	369.6		
B MARKER	380.8		
B EQUIVALENT	386.4		
B SALT			
B ANHYDRITE	393.4		
A2 CARBONATE	398.6		
A2 SALT	409.0		
SILURIAN: A2 ANHYDRITE	410.0		
A1 CARBONATE	411.4		
A1 SALT			
A1 ANHYDRITE			
GUELPH	414.5		
ERAMOSA			
GOAT ISLAND			
GASPORT/AMHERTON			
DECEW	498.3		
ROCHESTER	520.8		
IRONDEQUOIT			
REYNALES/FOSSIL HILL	534.6		
THOROLD	537.9		
GRIMSBY	539.8		
CABOT HEAD	552.2		
MANITOULIN	574.0		
WHIRLPOOL			
ORDOVICIAN: QUEENSTON	580.2		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Elgin TWP Lake Erie BLK 156 TRAC R LOT CON
WELL NAME Consumers 13864 L.E. 156-R PERMIT 6483 INIT CLASS DEV
OPERATOR The Consumers' Gas Company Ltd. TARGET CLI CUR STATUS DH-Abd

DRILLING DATA

CONTRACTOR Underwater Gas Devel. Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 180.9
BOT LOGGER 596.0
ROTRY TOP 27.8 DRILLER 596.0
BOT 596.0 DEEP END
DRLG FLD Polybrine PLUG BK

DATES

PERMIT 1984-04-26
SPUD 1984-07-29
COMPTD 1984-07-31
OFFCNF 1984-08-31
WRKOVR
ABNDND 1984-08-01

COORDINATES

NORTH m
SOUTH m
EAST m
WEST m
LAT 42-21-50.8
LONG 80-47-48.4

SAMPLES

TOP 108.0
BOT 596.0
TRAY 6480

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	27.8	HAN	27.8
244	53.6	106.8	CEM	
178	29.8	222.7	CEM	

COMPLETION DATA

GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
228.0 – 595.5	DLLM	Schlumberger
27.0 – 589.0	CNFD	"
–		
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☐
REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	m
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.4		
DRIFT / LAKE BOTTOM	27.8		
DEVONIAN: PORT LAMBTON			
KETTLE POINT	106.7		
HAMILTON	136.6		
MARCELLUS			
DUNDEE	193.6		
COLUMBUS			
LUCAS	212.4		
AMHERSTBURG	225.8		
SYLVANIA			
BOIS BLANC	250.4		
SPRINGVALE			
ORISKANY	268.5		
SILURIAN: BASS ISLANDS	277.6		
G SHALE	315.8		
F SHALE	323.6		
F SALT			
E CARBONATE	347.4		
D SALT/EQUIVALENT	383.2		
C SHALE	384.7		
B MARKER	394.7		
B EQUIVALENT	400.4		
B SALT			
B ANHYDRITE	408.0		
A2 CARBONATE	413.8		
A2 SALT	423.6		
SILURIAN: A2 ANHYDRITE	425.8		
A1 CARBONATE	427.8		
A1 SALT			
A1 ANHYDRITE			
GUELPH	431.7		
ERAMOSA			
GOAT ISLAND			
GASPORT/AMHERTON			
DECEW	505.7		
ROCHESTER	526.4		
IRONDEQUOIT			
REYNALES/FOSSIL HILL	538.8		
THOROLD	542.4		
GRIMSBY	543.6		
CABOT HEAD	555.3		
MANITOULIN	580.0		
WHIRLPOOL	584.8		
ORDOVICIAN: QUEENSTON	585.6		
BLUE MOUNTAIN - GEORG BAY			
COLLINGWOOD			
COBOURG			
VERULAM			
KIRKFIELD			
COBOCONK			
GULL RIVER			
SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Elgin TWP Lake Erie BLK 156 TRAC X LOT CON
WELL NAME Consumers 13877 L.E. 156-X PERMIT 6590 INIT CLASS DEV
OPERATOR Consumers' Gas Company Ltd. TARGET CLI CUR STATUS CS-Abd

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Underwater Gas Developers Ltd.			PERMIT	1984-09-14	NORTH	m	TOP	99.0
RIG TYPE	ROT	DEPTHS		SPUD	1984-09-28	SOUTH	m	BOT	600.0
CABLE TOP		KB ELEV	181.1	COMPTD	1984-09-30	EAST	m	TRAV	5713
BOT		LOGGER	599.8	OFFCNF	1984-10-30	WEST	m		
ROTRY TOP	28.1	DRILLER	600.0	WRKOVR		LAT	42-20-55.5		
BOT	600.0	DEEP END		ABNDND	1984-10-01	LONG	80-48-50.8		
DRLG FLD	Polybrine	PLUG BK							

INITIAL GAS RECORD			CASING AND TUBING RECORD					COMPLETION DATA	
INTERVAL	FLOW	SIP	DIAM	WEIGHT	SET AT	HOW SET	RECOV	GAS	$10^3m^3/d$
177.0 –	Show		273	75.9	28.1	HAN	28.1	OIL	m^3/d
–			244	53.6	97.3	CEM		SIP	kPa
–			178	29.8	222.6	CEM		FORM	
–								INTRVL	m
–									m
–									m

INITIAL OIL RECORD			LOGGING RECORD			PERF ☐	OPEN HOLE ☐
INTERVAL	FLOW	DENSITY	INTERVAL	TYPE	COMPANY	REMARKS	
–			28.2 – 591.6	CNFD	Schlumberger		
–			222.8 – 599.6	DLLM	"		
–			–				
–			–				
–			–				
–			–				

INITIAL WATER RECORD			CORING RECORD			
INTERVAL	STAT LEV	TYPE	INTERVAL	LOCATION	NO	mm
–			–			
–			–			
–			–			
–			–			
–			–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK		GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.4				A2 ANHYDRITE	403.5		
DRIFT / LAKE BOTTOM	28.1				A1 CARBONATE	404.9		
PORT LAMBTON					A1 SALT			
KETTLE POINT	97.4				A1 ANHYDRITE			
HAMILTON	137.9				GUELPH	409.8		
MARCELLUS					ERAMOSA			
DUNDEE	190.1				GOAT ISLAND			
COLUMBUS					GASPORT/MARTTON			
LUCAS	207.5				DECEW	503.7		
AMHERSTBURG	246.0				ROCHESTER	530.0		
SYLVANIA					IRONDEQUOIT			
BOIS BLANC	251.7				REYNALES/FOSSIL HILL	542.7		
SPRINGVALE					THOROLD	545.0		
ORISKANY	262.3				GRIMSBY	546.5		
BASS ISLANDS	265.0				CABOT HEAD	559.0		
G SHALE	298.8				MANITOULIN	586.4		
F SHALE	305.0				WHIRLPOOL			
F SALT					QUEENSTON	588.2		
E CARBONATE	326.7				BLUE MOUNTAIN - GEORG. BAY			
D SALT/EQUIVALENT	361.7				COLLINGWOOD			
C SHALE	362.8				COBOURG			
B MARKER	374.6				VERULAM			
B EQUIVALENT	380.6				KIRKFIELD			
B SALT					COBOCONK			
B ANHYDRITE	387.7				GULL RIVER			
A2 CARBONATE	392.7				SHADOW LAKE			
A2 SALT					CAMBRIAN			
					PRECAMBRIAN			

GEOLOGY BY

CTY Elgin TWP Lake Erie BLK 158 TRAC 0 LOT CON
WELL NAME Consumers 13866 LE 158-0 PERMIT 6485 INIT CLASS DEV
OPERATOR The Consumers Gas Company Ltd. TARGET CLI CUR STATUS GP

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Underwater Gas Developers Ltd.			PERMIT	1984-04-26	NORTH	m	TOP	108.0
RIG TYPE	ROT	DEPTHS		SPUD	1984-07-06	SOUTH	m	BOT	582.0
CABLE TOP		KB ELEV	181.1	COMPTD	1984-07-10	EAST	m	TRAV	5564
BOT		LOGGER	581.7	OFFCNF	1984-08-10	WEST	m		
ROTRY TOP	28.0	DRILLER	582.0	WRKOVR		LAT	42-22-59		
BOT	582.0	DEEP END		ABNDND		LONG	80-59-31		
DRLG FLD	Polybrine	PLUG BK	567.1						

INITIAL GAS RECORD			CASING AND TUBING RECORD					COMPLETION DATA	
INTERVAL	FLOW	SIP	DIAM	WEIGHT	SET AT	HOW SET	RECOV	GAS	4.757 $10^3m^3/d$
155.0 –	SHOW		273	75.9	28.0	HAN	28.0	OIL	m^3/d
530.0 – 539.5	4.757	5647	244	53.6	108.3	CEM		SIP	5647 kPa
–			178	29.8	213.1	CEM		FORM	Grimsby
–			114	14.4	577.8	CEM		INTRVL	532.5 – 536.6 m
–			60	7.0	529.4	HAN			m
–									m

INITIAL OIL RECORD			LOGGING RECORD			PERF ☑	OPENHOLE ☐
INTERVAL	FLOW	DENSITY	INTERVAL	TYPE	COMPANY	REMARKS	
–			25.0 – 5745	CNFD	Schlumberger		
–			218.0 – 581.5	DIPS	"		
–			–			Spot .16m³ of HCl	
–			–			(15%) acid and 1 L of	
–			–			inhibitor at 510.0m	
–			–				

INITIAL WATER RECORD			CORING RECORD			
INTERVAL	STAT LEV	TYPE	INTERVAL	LOCATION	NO	mm
423.0 –		SUL	–			
–			–			
–			–			
–			–			
–			–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK		GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.4				A2 ANHYDRITE	387.3		
DRIFT / LAKE BOTTOM	28.0				A1 CARBONATE			
PORT LAMBTON					A1 SALT			
KETTLE POINT					A1 ANHYDRITE			
HAMILTON	109.5				GUELPH	389.5		
MARCELLUS					ERAMOSA			
DUNDEE	148.2				GOAT ISLAND			
COLUMBUS					GASPORT/MARTTON			
LUCAS	169.8				DECEW	492.7		
AMHERSTBURG	196.6				ROCHESTER	509.6		
SYLVANIA					IRONDEQUOIT			
BOIS BLANC	209.0				REYNALES/FOSSIL HILL	528.0		
SPRINGVALE					THOROLD	531.2		
ORISKANY	226.8				GRIMSBY	532.2		
BASS ISLANDS	234.9				CABOT HEAD	542.7		
G SHALE	273.3				MANITOULIN	566.3		
F SHALE	281.2				WHIRLPOOL			
F SALT					QUEENSTON	571.8		
E CARBONATE	305.4				BLUE MOUNTAIN - GEORG. BAY			
D SALT/EQUIVALENT					COLLINGWOOD			
C SHALE	341.2				COBOURG			
B MARKER	357.4				VERULAM			
B EQUIVALENT	363.0				KIRKFIELD			
B SALT					COBOCONK			
B ANHYDRITE	370.4				GULL RIVER			
A2 CARBONATE	375.5				SHADOW LAKE			
A2 SALT					CAMBRIAN			
					PRECAMBRIAN			

GEOLOGY BY

CTY Elgin TWP Lake Erie BLK 181 TRAC N LOT CON
WELL NAME Cons/Pembina 13872 L.E. 181-N PERMIT 6555 INIT CLASS DW
OPERATOR The Consumer's Gas Company Ltd. TARGET CLI CUR STATUS DH-Abd

DRILLING DATA
CONTRACTOR Underwater Gas Devel. Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 181.0
BOT LOGGER 648.3
ROTRY TOP 29.2 DRILLER 648.5
BOT 648.5 DEEPEND
DRLG FLD Polybrine PLUG BK

DATES
PERMIT 1984-07-19
SPUD 1984-09-05
COMPTD 1984-09-08
OFFCNF 1984-10-08
WRKOVR
ABNDND 1984-09-08

COORDINATES
NORTH m
SOUTH m
EAST m
WEST m
LAT 42-17-52.7
LONG 81-13-08.2

SAMPLES
TOP 84.0
BOT 648.0
TRAY 946

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	29.2	HAN	29.2
244	53.6	84.5	CEM	
178	29.8	211.1	CEM	

COMPLETION DATA
GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF OPEN HOLE

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL		TYPE	COMPANY
215.0	644.0	DLLM	Schlumberger
28.0	640.2	CNFD	"
–			
–			
–			
–			

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.5		
DRIFT / LAKE BOTTOM	29.2		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT	84.5		
DEVONIAN: HAMILTON	122.4		
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	211.8		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS	234.5		
DEVONIAN: AMHERSTBURG	262.0		
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC	289.0		
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY	310.8		
SILURIAN: BASS ISLANDS	319.7		
SILURIAN: G SHALE	357.0		
SILURIAN: F SHALE	364.3		
SILURIAN: F SALT			
SILURIAN: E CARBONATE	388.0		
SILURIAN: D SALT/EQUIVALENT	421.2		
SILURIAN: C SHALE	426.3		
SILURIAN: B MARKER	435.0		
SILURIAN: B EQUIVALENT	440.0		
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE	449.8		
SILURIAN: A2 CARBONATE	456.7		
SILURIAN: A2 SALT			

A2 ANHYDRITE	471.0		
A1 CARBONATE	475.8		
A1 SALT			
A1 ANHYDRITE			
GUELPH	489.8		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW	559.7		
ROCHESTER	578.7		
IRONDEQUOIT			
REYNALES/FOSSIL HILL	594.7		
THOROLD	601.0		
GRIMSBY	603.6		
CABOT HEAD	609.0		
MANITOULIN	630.3		
WHIRLPOOL	635.6		
ORDOVICIAN: QUEENSTON	636.5		
ORDOVICIAN: BLUE MOUNTAIN GEORG BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Elgin TWP Lake Erie BLK 182 TRAC P LOT CON
WELL NAME Consumers 13867 L.E. 182-P PERMIT 6486 INIT CLASS DEV
OPERATOR The Consumers' Gas Company Ltd. TARGET CLI CUR STATUS DH-Abd

DRILLING DATA
CONTRACTOR Underwater Gas Devel. Ltd.
RIG TYPE ROT DEPTHS
CABLE TOP KB ELEV 180.9
BOT LOGGER 643.5
ROTRY TOP 29.3 DRILLER 644.0
BOT 644.0 DEEPEND
DRLG FLD Polybrine PLUG BK

DATES
PERMIT 1984-04-26
SPUD 1984-07-22
COMPTD 1984-07-24
OFFCNF 1984-08-24
WRKOVR
ABNDND 1984-07-25

COORDINATES
NORTH m
SOUTH m
EAST m
WEST m
LAT 42-16-16.3
LONG 81-09-20.0

SAMPLES
TOP 90.0
BOT 644.0
TRAY 7388

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	29.8	HAN	29.3
244	53.6	85.5	CEM	
178	29.8	248.7	CEM	

COMPLETION DATA
GAS $10^3 m^3/d$
OIL m^3/d
SIP kPa
FORM
INTRVL m
m
m
PERF OPEN HOLE

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL		TYPE	COMPANY
28.5	636.0	CNFD	Schlumberger
–			
–			
–			
–			
–			

REMARKS
Samples & Loge disagree

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
336.0 –		SUL
423.0 –		SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS	TOP	ELEV	THICK
KB / LAKE LEVEL	6.4		
DRIFT / LAKE BOTTOM	29.3		
DEVONIAN: PORT LAMBTON			
DEVONIAN: KETTLE POINT	85.2		
DEVONIAN: HAMILTON	135.5		
DEVONIAN: MARCELLUS			
DEVONIAN: DUNDEE	222.2		
DEVONIAN: COLUMBUS			
DEVONIAN: LUCAS	241.4		
DEVONIAN: AMHERSTBURG	270.3		
DEVONIAN: SYLVANIA			
DEVONIAN: BOIS BLANC	281.7		
DEVONIAN: SPRINGVALE			
DEVONIAN: ORISKANY	301.7		
SILURIAN: BASS ISLANDS	307.8		
SILURIAN: G SHALE	348.7		
SILURIAN: F SHALE	355.6		
SILURIAN: F SALT			
SILURIAN: E CARBONATE	378.0		
SILURIAN: D SALT/EQUIVALENT	412.1		
SILURIAN: C SHALE	413.3		
SILURIAN: B MARKER	432.5		
SILURIAN: B EQUIVALENT	439.0		
SILURIAN: B SALT			
SILURIAN: B ANHYDRITE	446.7		
SILURIAN: A2 CARBONATE	453.3		
SILURIAN: A2 SALT	461.3		

A2 ANHYDRITE	466.4		
A1 CARBONATE	469.0		
A1 SALT			
A1 ANHYDRITE			
GUELPH	476.6		
ERAMOSA			
GOAT ISLAND			
GASPORT/WIARTON			
DECEW	570.2		
ROCHESTER	581.0		
IRONDEQUOIT			
REYNALES/FOSSIL HILL	591.5		
THOROLD	596.0		
GRIMSBY	598.0		
CABOT HEAD	605.3		
MANITOULIN	629.0		
WHIRLPOOL	635.2		
ORDOVICIAN: QUEENSTON	635.9		
ORDOVICIAN: BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN: COLLINGWOOD			
ORDOVICIAN: COBOURG			
ORDOVICIAN: VERULAM			
ORDOVICIAN: KIRKFIELD			
ORDOVICIAN: COBOCONK			
ORDOVICIAN: GULL RIVER			
ORDOVICIAN: SHADOW LAKE			
CAMBRIAN			
PRECAMBRIAN			

GEOLOGY BY

CTY Elgin TWP Lake Erie BLK 183 TRAC K LOT CON

WELL NAME Consumers 13868 LE 183-K PERMIT 6487 INIT CLASS DEV

OPERATOR The Consumers' Gas Company Ltd. TARGET CLI CUR STATUS GS-ABD

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Underwater Gas Developers Ltd.			PERMIT	1984-04-26	NORTH	m	TOP	96.0
RIG TYPE	ROT	DEPTHS		SPUD	1984-07-05	SOUTH	m	BOT	620.0
CABLE TOP		KB ELEV	181.1	COMPTD	1984-07-07	EAST	m	TRAY	7628
BOT		LOGGER	619.4	OFFCNF	1984-08-07	WEST	m		
ROTRY TOP	28.8	DRILLER	620.0	WR\OVR		LAT	42-17-11		
BOT	620.0	DEEP END		ABNDND	1984-07-08	LONG	81-00-34		
DRLG FLD	Polybrine	PLUG BK							

INITIAL GAS RECORD			CASING AND TUBING RECORD					COMPLETION DATA	
INTERVAL	FLOW	SIP	DIAM	WEIGHT	SET AT	HOW SET	RECOV		
568.0 – 575.0	1.467	5774	273	75.9	28.8	HAN	28.8	GAS	$10^3 m^3/d$
–			244	53.6	92.1	CEM		OIL	m^3/d
–			178	29.8	222.0	CEM		SIP	kPa
–								FORM	
–								INTRVL	m
–									m
–									m

INITIAL OIL RECORD			LOGGING RECORD			PERF ☐	OPEN HOLE ☐
INTERVAL	FLOW	DENSITY	INTERVAL	TYPE	COMPANY	REMARKS	
–			27.0 – 611.0	CNFD	Schlumberger		
–			226.0 – 615.1	DLLM	"		
–			–				
–			–				
–			–				
–			–				

INITIAL WATER RECORD			CORING RECORD			
INTERVAL	STAT LEV	TYPE	INTERVAL	LOCATION	NO	mm
–		SUL	–			
–			–			
–			–			
–			–			
–			–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	28.8		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT	81.3		
DEVONIAN	HAMILTON	158.6		
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE	210.2		
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS	225.7		
DEVONIAN	AMHERSTBURG	255.0		
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	268.0		
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY			
SILURIAN	BASS ISLANDS	285.7		
SILURIAN	G SHALE	340.7		
SILURIAN	F SHALE	344.2		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	364.4		
SILURIAN	D SALT/EQUIVALENT			
SILURIAN	C SHALE	401.3		
SILURIAN	B MARKER	412.1		
SILURIAN	B EQUIVALENT	418.3		
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE	425.4		
SILURIAN	A2 CARBONATE	423.3		
SILURIAN	A2 SALT			
SILURIAN	A2 ANHYDRITE	444.5		
SILURIAN	A1 CARBONATE	446.8		
SILURIAN	A1 SALT			
SILURIAN	A1 ANHYDRITE			
SILURIAN	GUELPH	451.8		
SILURIAN	ERAMOSA			
SILURIAN	GOAT ISLAND			
SILURIAN	GASPORT/WARTON			
SILURIAN	DECEW	538.3		
SILURIAN	ROCHESTER	552.7		
SILURIAN	IRONDEQUOIT			
SILURIAN	REYNALES/FOSSIL HILL	565.0		
SILURIAN	THOROLD	568.8		
SILURIAN	GRIMSBY	572.0		
SILURIAN	CABOT HEAD	581.1		
SILURIAN	MANITOULIN	602.4		
SILURIAN	WHIRLPOOL	607.5		
ORDOVICIAN	QUEENSTON	610.1		
ORDOVICIAN	BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG			
ORDOVICIAN	VERULAM			
ORDOVICIAN	KIRKFIELD			
ORDOVICIAN	COBOCONK			
ORDOVICIAN	GULL RIVER			
ORDOVICIAN	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY

CTY Elgin TWP Lake Erie BLK 185 TRAC K LOT CON

WELL NAME Consumers 13869 LE 185-K PERMIT 6488 INIT CLASS DEV

OPERATOR The Consumers Gas Company Ltd. TARGET CLI CUR STATUS GS-ABD

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Underwater Gas Developers Ltd.			PERMIT	1984-04-26	NORTH	m	TOP	102.0
RIG TYPE	ROT	DEPTHS		SPUD	1984-07-02	SOUTH	m	BOT	633.5
CABLE TOP		KB ELEV	181.1	COMPTD	1984-07-04	EAST	m	TRAY	6604
BOT		LOGGER	632.8	OFFCNF	1984-08-04	WEST	m		
ROTRY TOP	28.5	DRILLER	633.5	WR\OVR		LAT	42-17-00		
BOT	633.4	DEEP END		ABNDND	1984-07-05	LONG	80-50-02		
DRLG FLD	Polybrine	PLUG BK							

INITIAL GAS RECORD			CASING AND TUBING RECORD					COMPLETION DATA	
INTERVAL	FLOW	SIP	DIAM	WEIGHT	SET AT	HOW SET	RECOV		
580.0 – 596.0	.489	5667	273	75.9	28.5	HAN	28.5	GAS	$10^3 m^3/d$
–			244	53.6	101.4	CEM		OIL	m^3/d
–			178	29.8	227.1	CEM		SIP	kPa
–								FORM	
–								INTRVL	m
–									m
–									m

INITIAL OIL RECORD			LOGGING RECORD			PERF ☐	OPEN HOLE ☐
INTERVAL	FLOW	DENSITY	INTERVAL	TYPE	COMPANY	REMARKS	
–			28.4 – 624.5	CNFD	Schlumberger		
–			231.0 – 628.5	DLLM	"		
–			–				
–			–				
–			–				
–			–				

INITIAL WATER RECORD			CORING RECORD			
INTERVAL	STAT LEV	TYPE	INTERVAL	LOCATION	NO	mm
–			–			
–			–			
–			–			
–			–			
–			–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	28.5		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT	89.8		
DEVONIAN	HAMILTON	189.5		
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE	240.7		
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS	256.8		
DEVONIAN	AMHERSTBURG	271.6		
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	292.3		
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY			
SILURIAN	BASS ISLANDS	311.5		
SILURIAN	G SHALE	359.4		
SILURIAN	F SHALE	366.9		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	391.0		
SILURIAN	D SALT/EQUIVALENT			
SILURIAN	C SHALE	428.0		
SILURIAN	B MARKER	436.8		
SILURIAN	B EQUIVALENT	442.4		
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE	450.4		
SILURIAN	A2 CARBONATE	456.8		
SILURIAN	A2 SALT			
SILURIAN	A2 ANHYDRITE	469.0		
SILURIAN	A1 CARBONATE	470.3		
SILURIAN	A1 SALT			
SILURIAN	A1 ANHYDRITE			
SILURIAN	GUELPH	475.0		
SILURIAN	ERAMOSA			
SILURIAN	GOAT ISLAND			
SILURIAN	GASPORT/WARTON			
SILURIAN	DECEW	544.7		
SILURIAN	ROCHESTER	565.2		
SILURIAN	IRONDEQUOIT			
SILURIAN	REYNALES/FOSSIL HILL	577.8		
SILURIAN	THOROLD	582.8		
SILURIAN	GRIMSBY	586.8		
SILURIAN	CABOT HEAD	598.4		
SILURIAN	MANITOULIN	618.5		
SILURIAN	WHIRLPOOL	625.2		
ORDOVICIAN	QUEENSTON	627.0		
ORDOVICIAN	BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG			
ORDOVICIAN	VERULAM			
ORDOVICIAN	KIRKFIELD			
ORDOVICIAN	COBOCONK			
ORDOVICIAN	GULL RIVER			
ORDOVICIAN	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY

CTY Elgin TWP Lake Erie BLK 186 TRAC A LOT CON

WELL NAME Consumers 13870 LE 186-A PERMIT 6489 INIT CLASS DEV

OPERATOR The COnsumers Gas Company Ltd. TARGET CLI CUR STATUS GS-OS-ABD

DRILLING DATA

CONTRACTOR Underwater Gas Developers Ltd.

RIG TYPE ROT DEPTHS

CABLE TOP KB ELEV 181.1

BOT LOGGER 603.9

ROTRY TOP 28.2 DRILLER 604.6

BOT 604.6 DEEP END

DRLG FLD Polybrine PLUG BK

DATES

PERMIT 1984-04-26

SPUD 1984-06-29

COMPTD 1984-07-01

OFFCNF 1984-08-01

WRKOVR

ABNDND 1984-07-02

COORDINATES

NORTH m

SOUTH m

EAST m

WEST m

LAT 42-19-25

LONG 80-45-29

SAMPLES

TOP 105.0

BOT 603.0

TRAY 7639

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
441.0 –	SHOW	

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	28.2	HAN	28.2
244	53.6	104.0	CEM	
178	29.8	223.2	CEM	

COMPLETION DATA

GAS $10^3 m^3/d$

OIL m^3/d

SIP kPa

FORM

INTRVL m

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
441.0 –	SHOW	

LOGGING RECORD

INTERVAL	TYPE	COMPANY
28.2 – 595.8	CNFD	Schlumberger
27.5 – 603.8	DLLM	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
441.0 –		SUL

CORING RECORD

INTERVAL	LOCATION	NO	MM

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	28.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	87.7		
	HAMILTON	152.4		
	MARCELLUS			
	DUNDEE	205.8		
	COLUMBUS			
	LUCAS	221.5		
	AMHERSTBURG	251.8		
	SYLVANIA			
	BOIS BLANC	255.3		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	280.0		
	G SHALE	319.7		
	F SHALE	327.1		
	F SALT			
	E CARBONATE	350.8		
	D SALT/EQUIVALENT			
	C SHALE	387.0		
	B MARKER	396.2		
	B EQUIVALENT	402.2		
	B SALT			
	P ANHYDRITE	405.7		
	A2 CARBONATE	415.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	426.4		
	A1 CARBONATE	427.9		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	430.5		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	507.0		
	ROCHESTER	529.9		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	543.6		
	THOROLD	547.3		
	GRIMSBY	550.0		
	CABOT HEAD	560.0		
	MANITOULIN	579.6		
	WHIRLPOOL	589.0		
ORDOVICIAN	QUEENSTON	592.0		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY

CTY Elgin TWP Lake Erie BLK 218 TRAC F LOT CON

WELL NAME Cons/Pemb. 13873 L.E. 218-F PERMIT 6561 INIT CLASS NPW

OPERATOR The Consumers' Gas Company Ltd. TARGET CLI CUR STATUS DH-Abd

DRILLING DATA

CONTRACTOR Underwater Gas Devel. Ltd.

RIG TYPE ROT DEPTHS

CABLE TOP KB ELEV 181.1

BOT LOGGER 680.5

ROTRY TOP 29.8 DRILLER 680.0

BOT 680.0 DEEP END

DRLG FLD Polybrine PLUG BK

DATES

PERMIT 1984-07-19

SPUD

COMPTD 1984-09-05

OFFCNF

WRKOVR

ABNDND 1984-09-05

COORDINATES

NORTH m

SOUTH m

EAST m

WEST m

LAT 42-13- 21.8

LONG 81-14-46

SAMPLES

TOP 84.0

BOT 680.0

TRAY 7741

INITIAL GAS RECORD

INTERVAL	FLOW	SIP

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	29.8	HAN	29.8
244	53.6	84.1	CEM	
178	29.8	224.9	CEM	

COMPLETION DATA

GAS $10^3 m^3/d$

OIL m^3/d

SIP kPa

FORM

INTRVL m

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY
29.5 – 672.5	CNFD	Schlumberger
230.0 – 680.0	DLLM	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE

CORING RECORD

INTERVAL	LOCATION	NO	MM

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	29.8		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	80.6		
	HAMILTON	160.0		
	MARCELLUS			
	DUNDEE	244.0		
	COLUMBUS			
	LUCAS	284.8		
	AMHERSTBURG	294.3		
	SYLVANIA			
	BOIS BLANC	315.3		
	SPRINGVALE			
	ORISKANY	343.8		
SILURIAN	BASS ISLANDS	351.8		
	G SHALE	387.5		
	F SHALE	395.6		
	F SALT			
	E CARBONATE	419.2		
	D SALT/EQUIVALENT			
	C SHALE	455.3		
	B MARKER	471.4		
	B EQUIVALENT	477.8		
	B SALT			
	B ANHYDRITE	486.4		
	A2 CARBONATE	496.1		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	508.0		
	A1 CARBONATE	511.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	514.5		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	603.2		
	ROCHESTER	607.1		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	625.0		
	THOROLD	630.0		
	GRIMSBY	631.0		
	CABOT HEAD	638.2		
	MANITOULIN	662.2		
	WHIRLPOOL	666.8		
ORDOVICIAN	QUEENSTON	671.0		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY

CTY Kent TWP Lake Erie BLK 348 TRAC H LOT CON

WELL NAME Consumers 13875 L.E. 348 - H PERMIT 6554 INIT CLASS NPW

OPERATOR The Consumers' Gas Company Ltd. TARGET CLI CUR STATUS GS-Abd

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Underwater Gas Devel. Ltd.			PERMIT	1984-07-13	NORTH	m	TOP	69.0
RIG TYPE	ROT	DEPTHS		SPUD	1984-07-18	SOUTH	m	BOT	615.0
CABLE TOP		KB ELEV	180.9	COMPTD	84-07-21	EAST	m	TRAY	38
BOT		LOGGER	615.4	OFFCNF	1985-07-21	WEST	m		
ROTRY TOP	29.3	DRILLER	616.0	WRKOVR		LAT	41-53-31.1		
BOT	616.0	DEEP END		ABNDND	1984-07-21	LONG	82-02-31.5		
DRLG FLD	Polybrine	PLUG BK							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
141.0 –	SHOW	
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	29.3	HAN	29.3
244	53.6	66.6	CEM	
178	26.8	244.4	CEM	

COMPLETION DATA

GAS $10^3m^3/d$

OIL m^3/d

SIP kPa

FORM

INTRVL m

m

m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
30.0 – 607.4	CNFD	Schlumberger
–		
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO.	mm
–			
–			
–			
–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	29.3		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT	54.7		
DEVONIAN	HAMILTON	92.7		
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE	142.1		
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS	183.5		
DEVONIAN	AMHERSTBURG	213.2		
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	257.7		
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY			
SILURIAN	BASS ISLANDS	285.0		
SILURIAN	G SHALE	338.4		
SILURIAN	F SHALE	347.0		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	367.0		
SILURIAN	D SALT/EQUIVALENT			
SILURIAN	C SHALE	411.8		
SILURIAN	B MARKER	424.8		
SILURIAN	B EQUIVALENT			
SILURIAN	B SALT	438.0		
SILURIAN	B ANHYDRITE			
SILURIAN	A2 CARBONATE	475.0		
SILURIAN	A2 SALT			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
SILURIAN	A2 ANHYDRITE	477.2		
SILURIAN	A1 CARBONATE	495.6		
SILURIAN	A1 SALT			
SILURIAN	A1 ANHYDRITE			
SILURIAN	GUELPH	499.8		
SILURIAN	ERAMOSA			
SILURIAN	GOAT ISLAND			
SILURIAN	GASPORT/WARTON			
SILURIAN	DECEW			
SILURIAN	ROCHESTER			
SILURIAN	IRONDEQUOIT			
SILURIAN	REYNALES/FOSSIL HILL			
SILURIAN	THOROLD			
SILURIAN	GRIMSBY			
SILURIAN	CABOT HEAD			
SILURIAN	MANITOULIN			
SILURIAN	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
ORDOVICIAN	BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG			
ORDOVICIAN	VERULAM			
ORDOVICIAN	KIRKFIELD			
ORDOVICIAN	COBOCONK			
ORDOVICIAN	GULL RIVER			
ORDOVICIAN	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY

CTY Kent TWP Lake Erie BLK 349 TRAC H LOT CON

WELL NAME Consumers 13874 L.E. 349-H PERMIT 6553 INIT CLASS NPW

OPERATOR The Consumers' Gas Company Ltd. TARGET CLI CUR STATUS DH-Abd

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Underwater Gas Devel. Ltd.			PERMIT	1984-07-13	NORTH	m	TOP	75.0
RIG TYPE	ROT	DEPTHS		SPUD	1984-07-15	SOUTH	m	BOT	588.0
CABLE TOP		KB ELEV	180.9	COMPTD	1984-07-17	EAST	m	TRAY	6453
BOT		LOGGER	587.8	OFFCNF	1984-07-17	WEST	m		
ROTRY TOP	28.5	DRILLER	588.0	WRKOVR		LAT	41-53-15.4		
BOT	588.0	DEEP END		ABNDND	1984-07-17	LONG	82-07-35.4		
DRLG FLD	Polybrine	PLUG BK							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	28.5	HAN	28.5
244	53.6	71.8	CEM	
178	29.8	244.0	CEM	

COMPLETION DATA

GAS: $10^3m^3/d$

OIL: m^3/d

SIP: kPa

FORM:

INTRVL: m

m

m

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
27.0 – 579.8	CNFD	Schlumberger
–		
–		
–		
–		
–		

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO.	mm
–			
–			
–			
–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	28.5		
DEVONIAN	PORT LAMBTON			
DEVONIAN	KETTLE POINT	57.5		
DEVONIAN	HAMILTON	75.3		
DEVONIAN	MARCELLUS			
DEVONIAN	DUNDEE	126.8		
DEVONIAN	COLUMBUS			
DEVONIAN	LUCAS	159.4		
DEVONIAN	AMHERSTBURG	197.0		
DEVONIAN	SYLVANIA			
DEVONIAN	BOIS BLANC	218.5		
DEVONIAN	SPRINGVALE			
DEVONIAN	ORISKANY			
SILURIAN	BASS ISLANDS	261.8		
SILURIAN	G SHALE	329.0		
SILURIAN	F SHALE	336.8		
SILURIAN	F SALT			
SILURIAN	E CARBONATE	361.8		
SILURIAN	D SALT/EQUIVALENT			
SILURIAN	C SHALE	402.4		
SILURIAN	B MARKER	415.7		
SILURIAN	B EQUIVALENT	421.6		
SILURIAN	B SALT			
SILURIAN	B ANHYDRITE	431.6		
SILURIAN	A2 CARBONATE	439.6		
SILURIAN	A2 SALT			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
SILURIAN	A2 ANHYDRITE	436.7		
SILURIAN	A1 CARBONATE	458.5		
SILURIAN	A1 SALT			
SILURIAN	A1 ANHYDRITE			
SILURIAN	GUELPH	465.1		
SILURIAN	ERAMOSA			
SILURIAN	GOAT ISLAND			
SILURIAN	GASPORT/WARTON			
SILURIAN	DECEW			
SILURIAN	ROCHESTER			
SILURIAN	IRONDEQUOIT			
SILURIAN	REYNALES/FOSSIL HILL			
SILURIAN	THOROLD			
SILURIAN	GRIMSBY			
SILURIAN	CABOT HEAD			
SILURIAN	MANITOULIN			
SILURIAN	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
ORDOVICIAN	BLUE MOUNTAIN - GEORG BAY			
ORDOVICIAN	COLLINGWOOD			
ORDOVICIAN	COBOURG			
ORDOVICIAN	VERULAM			
ORDOVICIAN	KIRKFIELD			
ORDOVICIAN	COBOCONK			
ORDOVICIAN	GULL RIVER			
ORDOVICIAN	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY

Appendix VI.
Index of Available Oil and Gas Analyses from Wells Drilled in Ontario

GAS ANALYSIS SUMMARY

Wellname	Lot	Conc	Formation	Depth	Date	C1	C2	C3	I_C4	N_C4	I_C5	N_C5	C6+	Total	N_2	CO_2	H_2O	He	O_2	H_2	Gross Heat MJ/m^3	Relat. Dens.	Crit. Temp. Deg R	Crit. Press. kPa ABS
COUNTY ELGIN																								
Township Aldborough																								
Roth & Roth #1	1	GORE	A2 Carbonate	470.0	63.11.21	89.68	5.28	1.90	0.26	0.46	0.10	0.05	0.03	97.76	2.24	0.00	0.00	0.00	0.00	0.00	40.69	0.621	361.5	4609.5
True Test Gas & Oil 3	22A-BF-ED		A1 Carbonate	443.8	68.09.24	82.67	5.77	2.47	0.37	0.65	0.14	0.13	0.06	92.26	7.45	0.05	0.00	0.24	0.00	0.00	40.76	0.658	359.6	4529.6
Union Mosald #53	Z	A	A1 Carbonate	429.8	54.09.17	83.27	3.83	2.02	0.81	0.00	0.34	0.00	0.00	90.27	9.31	0.22	0.00	0.20	0.00	0.00	39.47	0.650	351.4	4511.0
Aglen-Duriancik #1	A	XII	Guelph	496.8	64.10.01	84.40	5.50	2.40	0.70	0.00	0.00	0.00	0.00	93.00	6.10	0.00	0.00	0.00	0.80	0.10	39.94	0.643	357.2	4562.1
Aldborough 7-18-IV	18	IV	Trenton	952.5	74.07.22	89.36	4.90	1.62	0.17	0.40	0.07	0.08	0.06	96.66	3.21	0.00	0.00	0.10	0.00	0.03	40.16	0.619	357.8	4593.1
C. B. Lewis J. Tarr #1	7	XI	Cambrian	1200.9	60.04.26	88.03	5.16	1.61	0.97	0.00	0.00	0.00	0.00	95.77	3.54	0.00	0.00	0.10	0.59	0.00	40.06	0.626	358.0	4591.6
C. B. Lewis John Tarr #1	7	XI	Cambrian	1200.9	60.04.26	90.59	5.31	1.66	1.00	0.00	0.00	0.00	0.00	98.56	1.34	0.00	0.00	0.10	0.00	0.00	40.67	0.615	361.6	4616.3
Lewis #9	7	XI	Cambrian	1200.9	60.02.24	86.95	5.57	1.47	0.31	0.00	0.35	0.00	0.00	94.65	5.34	0.00	0.27	0.00	0.00	0.00	39.94	0.632	357.9	4598.3
Township Bayham																								
Vienna (Village)			Dundee	58.5	72.05.01	86.70	1.00	0.10	0.00	0.00	0.10	0.00	0.00	87.90	11.60	0.40	0.00	0.00	0.00	0.00	36.31	0.613	333.1	4503.2
Township Dunwich																								
Imperial Enterprises	23	III	Cambrian	1092.7	66.08.24	84.56	4.87	1.72	0.29	0.45	0.11	0.08	0.08	92.16	7.54	0.00	0.00	0.23	0.00	0.07	39.77	0.640	353.5	4529.1
Union Mosald #32	19	III	A1 Carbonate	383.1	54.09.17	81.30	4.39	1.94	0.85	0.00	0.34	0.00	0.22	89.04	10.72	0.00	0.00	0.24	0.00	0.00	39.81	0.662	351.5	4483.4
Consumers 33160	7	ABF	Guelph	129.5	80.09.26	84.58	6.06	1.84	0.00	0.84	0.00	0.10	0.01	93.43	6.53	0.00	0.00	0.00	0.04	0.00	40.30	0.643	358.2	4558.7
COUNTY ESSEX																								
Township Colchester S.																								
Putman Fowler No.1	50	I	A1 Carbonate	270.7	66.01.06	80.73	4.02	0.15	0.30	0.01	0.09	0.00	0.04	85.34	13.45	0.77	0.00	0.38	0.06	0.00	36.98	0.644	338.5	4482.0
Township Mersea																								
Consumers 33821	12	I	Trenton	0.0	85.07.15	71.70	12.77	7.20	0.76	0.02	0.31	0.00	0.16	92.92	0.04	0.77	0.00	0.02	0.00	0.03	43.84	0.680	378.3	4359.9
Consumers 34012	23	VII	Trenton	0.0	86.02.05	85.75	4.28	1.44	0.14	0.00	0.05	0.00	0.02	91.68	0.07	0.00	0.00	0.19	0.00	0.08	36.73	0.547	329.3	4261.1
Consumers 34102	11	I	Trenton	767.0	85.11.21	82.50	8.50	3.60	0.36	0.01	0.23	0.00	0.32	95.52	0.03	0.04	0.00	0.00	0.00	0.00	41.38	0.624	361.7	4431.9
Consumers et al 33775 (7-12-1)	12	I	Trenton	0.0	85.04.09	69.02	15.65	9.33	1.01	0.02	0.43	0.01	0.24	95.71	0.01	0.29	0.00	0.00	0.00	0.00	47.36	0.730	400.1	4445.9
Consumers et al 33775 (7-12-1)	12	I	Trenton	365.5	85.05.12	77.11	11.44	5.93	0.60	0.01	0.24	0.00	0.16	95.49	0.02	0.30	0.00	0.04	0.00	0.04	43.50	0.664	376.7	4448.2
Consumers et al 33817 (3-13-A)	13	A	Trenton	0.0	85.04.02	71.32	14.19	8.32	0.85	0.02	0.33	0.00	0.17	95.20	0.01	0.50	0.00	0.01	0.00	0.02	45.84	0.707	391.7	4442.4
Consumers et al 33818 (5-12-1)	12	I	Trenton	811.0	85.01.07	67.29	14.44	9.31	1.14	2.89	0.60	0.75	0.50	96.92	0.03	0.06	0.00	0.00	0.00	0.00	51.37	0.795	419.1	4441.5
Consumers et al 33818 (5-12-1)	12	I	Trenton	0.0	84.12.19	79.39	8.83	5.22	0.68	0.02	0.40	0.01	0.27	94.82	0.02	0.23	0.00	0.07	0.00	0.04	42.53	0.647	368.1	4403.6
Consumers et al 34102	11	I	Trenton	788.0	86.02.27	73.40	11.25	7.20	0.91	0.02	0.46	0.00	0.26	93.50	0.02	1.35	0.00	0.01	0.00	0.02	44.06	0.692	382.2	4420.0
Consumers et al 33818 (5-12-1)	12	I	Verulam	789.0	85.01.18	68.18	14.21	9.38	1.23	0.14	0.68	0.87	0.56	95.25	0.01	0.00	0.00	0.01	0.00	0.02	48.78	0.751	402.9	4377.2
Consumers et al 33821	12	I	Black River	941.5	85.02.17	80.98	6.98	3.97	0.75	0.01	0.38	0.00	0.28	93.35	0.04	0.15	0.00	0.12	0.00	0.06	40.78	0.617	355.0	4330.4
COUNTY GREY																								
Township Egremount																								
Creasing No.2	8	IX	Cambrian	672.1	67.06.21	83.87	5.84	1.94	0.24	0.41	0.10	0.07	0.03	92.50	7.14	0.04	0.00	0.28	0.00	0.00	40.04	0.643	355.9	4536.9
Creasing No.2	8	IX	Cambrian	672.1	67.07.21	85.36	5.16	1.97	0.25	0.43	0.09	0.06	0.04	93.36	6.36	0.17	0.00	0.11	0.00	0.00	40.01	0.639	356.6	4557.6
COUNTY HALDIMAND																								
Township Moulton																								
G. Mossip No. 1	26	II RGR	Grim/Whirl	219.2	54.09.23	83.00	5.37	1.90	0.55	0.00	0.24	0.00	0.00	91.06	8.51	0.13	0.00	0.30	0.00	0.00	39.62	0.646	353.1	4522.2
COUNTY HALTON																								
Township Esquesing																								
Anthony Gas And Oil	16	IV	Black River	578.5	55.10.21	84.59	3.15	1.42	0.52	0.00	0.30	0.00	0.00	89.98	9.64	0.11	0.00	0.27	0.00	0.00	38.63	0.636	345.9	4504.8
Township Trafalgar																								
Anthony-S.L. Hall	13	X	Black River	491.3	60.04.28	88.97	4.71	2.30	0.84	0.00	0.00	0.00	0.00	96.82	2.17	0.00	0.00	0.41	0.60	0.00	40.27	0.622	359.4	4592.6
Anthony-S.L. Hall	13	X	Black River	491.3	60.04.28	91.50	4.84	2.37	0.86	0.00	0.00	0.00	0.00	99.57	0.00	0.00	0.00	0.42	0.00	0.00	40.88	0.611	362.8	4616.0

GAS ANALYSIS SUMMARY

Wellname	Lot	Conc	Formation	Depth	Date	C1	C2	C3	I_C4	N_C4	I_C5	N_C5	C6+	Total	N_2	CO_2	H_2O	He	O_2	H_2	Gross Heat MJ/m³	Relat. Dens.	Crit. Temp. Deg R	Crit. Press. kPa ABS
COUNTY HURON																								
Township Stephen																								
Brady Ark Steven 3	22	XV	Guelph	533.4	73.12.06	78.71	8.39	4.59	0.59	1.13	0.17	0.15	0.05	93.78	6.00	0.01	0.00	0.19	0.00	0.02	43.54	0.695	376.7	4539.6
Township Wawanosh W.																								
Altair Wawanosh W. 17-VIII	17	VIII	Guelph	475.5	67.06.13	81.87	5.92	2.44	0.68	0.62	0.15	0.08	0.04	91.80	7.84	0.00	0.00	0.36	0.00	0.00	40.87	0.661	359.6	4516.6
Mesa et al Belmore 1-26-X	26	X	Guelph	320.0	70.11.24	80.72	5.22	2.01	0.47	0.39	0.09	0.06	0.00	88.96	10.54	0.00	0.00	0.48	0.00	0.02	39.50	0.656	350.8	4482.6
COUNTY KENT																								
Township Chatham																								
Chatham Gore No.3	18	IV	A1 Carbonate	545.6	54.10.15	84.32	3.83	1.92	1.17	0.00	0.50	0.00	0.00	91.74	8.01	0.11	0.00	0.14	0.00	0.00	40.14	0.651	354.8	4521.6
Township Dover																								
Ajax No. 4	2	IV	Trenton	635.5	67.10.05	89.60	4.60	1.40	0.10	0.40	0.20	0.00	0.10	96.40	3.10	0.10	0.00	0.14	0.00	0.00	39.88	0.615	356.1	4583.9
Rowe Brothers RR4	6	IVE	Verulam	0.0	85.06.15	85.59	6.59	3.22	0.41	0.01	0.20	0.00	0.12	96.14	0.02	0.03	0.00	0.09	0.00	0.02	40.59	0.609	357.5	4460.0
Rowe Brothers RR8-A	6	IVE	Verulam	0.0	85.06.15	83.04	8.50	4.22	0.48	0.01	0.20	0.00	0.11	96.56	0.02	0.07	0.00	0.05	0.00	0.01	41.89	0.632	366.5	4482.5
Township Harwich																								
Imperial No. 16-3	16	III LE	A2 Carbonate	473.7	54.10.17	80.25	7.98	3.20	1.22	0.00	0.56	0.00	0.00	93.21	6.62	0.07	0.00	0.10	0.00	0.00	42.36	0.680	369.6	4543.4
Imperial Wolfe No. 1	10	IV	A2 Carbonate	473.0	54.10.17	81.46	7.91	2.93	1.03	0.00	0.61	0.00	0.00	93.94	5.86	0.11	0.00	0.09	0.00	0.00	42.17	0.672	369.1	4556.6
Township Orford																								
Texaco Orford 63-NTR	63	NTR	Cambrian	1234.7	67.05.18	85.27	6.58	2.42	0.29	0.60	0.11	0.15	0.00	95.42	4.46	0.00	0.00	0.12	0.00	0.00	41.23	0.645	364.0	4575.3
Township Raleigh																								
Olga Well 1	20	VIII	Guelph	396.2	31.10.28	91.19	1.39	2.04	0.36	0.44	0.30	0.00	0.00	95.72	5.05	0.00	0.00	0.23	0.00	0.00	39.77	0.623	354.2	4598.4
Union 13 De' Chute	147	NTR	Guelph	457.2	31.10.29	87.91	0.32	0.54	0.35	0.38	0.30	0.00	0.00	89.80	9.15	0.57	0.00	0.20	0.28	0.00	37.33	0.621	339.7	4522.8
Township Tilbury E.																								
Union Tilbury 323	168	STR	A2/A1/Guelph	383.1	67.09.05	84.90	6.50	2.70	0.40	0.70	0.30	0.10	0.10	95.70	3.90	0.10	0.00	0.10	0.00	0.30	41.80	0.653	367.2	4573.9
Union Tilbury No.323	168	STR	A2/A1/Guelph	383.1	67.10.05	84.90	6.50	2.70	0.40	0.70	0.30	0.10	0.10	95.70	3.90	0.10	0.00	0.10	0.00	0.30	41.80	0.653	367.2	4573.9
Charlton No. 233	177	STR	Guelph	396.2	31.10.28	92.51	1.37	2.18	0.41	0.57	0.38	0.00	0.00	97.42	2.22	0.26	0.00	0.10	0.00	0.00	40.04	0.615	356.5	4597.0
COUNTY LAKE ERIE																								
Township																								
Consumers 13338	159	U	Hamilton	156.7	76.06.25	86.04	7.18	3.08	0.17	0.46	0.03	0.03	0.01	97.00	2.84	0.00	0.00	0.00	0.16	0.00	41.55	0.642	367.5	4605.2
Consumers 13399	159	C	Oriskany	213.4	77.06.03	69.29	3.81	0.78	0.09	0.10	0.01	0.00	0.00	74.08	24.00	0.00	0.00	0.00	1.92	0.00	35.33	0.693	325.3	4354.3
Composite Of MLO Series			A2/A1/Guelph	365.8	60.10.12	87.39	4.22	1.25	0.84	0.00	0.00	0.00	0.00	93.70	5.50	0.05	0.56	0.19	0.00	0.00	39.17	0.625	354.2	4586.8
Composite, LE Series, West End			A2/A1/Guelph	365.8	60.10.12	87.63	3.07	1.16	0.75	0.00	0.00	0.00	0.00	92.61	6.41	0.46	0.54	0.18	0.00	0.00	38.53	0.626	351.6	4594.0
Consumers 13106 Sample 1	158	C	A2/A1/Guelph	395.0	71.07.07	89.47	4.37	1.12	0.14	0.20	0.05	0.02	0.01	95.38	4.26	0.35	0.00	0.00	0.01	0.00	39.15	0.613	353.4	4599.5
Consumers 13106 Sample 2	158	C	A2/A1/Guelph	0.0	71.07.07	88.70	4.60	1.18	0.14	0.20	0.04	0.02	0.01	94.89	4.53	0.30	0.27	0.00	0.01	0.00	39.12	0.617	354.5	4607.0
Consumers Amoco 13075	120	Q	A2/A1/Guelph	419.1	69.08.07	89.42	4.40	1.30	0.18	0.31	0.05	0.05	0.03	95.74	4.24	0.00	0.00	0.00	0.02	0.00	39.58	0.615	354.2	4587.6
Consumers Pan Am 13038	102	B	A2 Carbonate	368.9	68.11.16	89.89	3.94	1.09	0.21	0.32	0.07	0.06	0.04	95.62	4.38	0.00	0.00	0.00	0.00	0.00	39.40	0.613	352.8	4584.5
Lake Erie Composite, 11637 MLO			A2/A1/Guelph	365.8	60.10.18	87.65	3.49	1.27	0.90	0.00	0.00	0.00	0.00	93.31	5.81	0.00	0.72	0.16	0.00	0.00	38.95	0.624	353.1	4587.4
Consumers 13091A	124	N	Guelph	352.0	71.08.24	88.18	4.70	1.18	0.15	0.16	0.03	0.01	0.01	94.42	4.21	0.06	1.04	0.22	0.01	0.04	38.84	0.617	356.0	4627.8
Consumers 13363	223	H	Guelph	0.0	75.06.11	86.89	5.21	1.71	0.30	0.35	0.08	0.02	0.01	94.57	5.09	0.24	0.00	0.00	0.10	0.00	39.91	0.631	357.2	4583.1
Consumers 13364	223	D	Guelph	0.0	75.07.14	87.18	4.50	1.67	0.31	0.35	0.08	0.02	0.01	94.12	4.98	0.33	0.54	0.00	0.03	0.00	39.50	0.631	357.8	4608.5
Composite Of Atlas			Guelph	289.6	70.01.01	85.36	6.37	2.36	0.30	0.49	0.12	0.08	0.07	95.15	4.34	0.10	0.41	0.00	0.00	0.00	40.95	0.646	365.1	4602.9
Consumers 13055	119	U	Guelph	0.0	71.06.24	87.60	4.87	1.41	0.21	0.28	0.09	0.03	0.02	94.51	4.98	0.02	0.00	0.21	0.00	0.26	39.50	0.620	353.3	4560.5
Consumers 13055 Sample 1	119	U	Guelph	411.8	71.07.21	86.26	4.66	1.33	0.14	0.21	0.04	0.02	0.02	92.68	4.90	0.07	1.90	0.30	0.08	0.07	38.50	0.628	358.4	4651.4

GAS ANALYSIS SUMMARY

Wellname	Lot	Conc	Formation	Depth	Date	C1	C2	C3	I_C4	N_C4	I_C5	N_C5	C6+	Total	N_2	CO_2	H_2O	He	O_2	H_2	Gross Heat MJ/m³	Relat. Dens.	Crit. Temp. Deg R	Crit. Press. kPa ABS
Consumers 13079	119	P	Guelph	0.0	71.07.15	90.08	4.31	1.10	0.14	0.20	0.04	0.20	0.02	96.09	3.92	0.00	0.00	0.16	0.01	0.00	39.51	0.612	353.9	4593.1
Consumers 13110	119	Y	Guelph	393.8	71.07.15	89.15	4.13	1.18	0.14	0.18	0.04	0.02	0.02	94.86	3.40	0.12	1.43	0.14	0.01	0.04	38.70	0.615	357.7	4658.2
Consumers 13111	118	U	Guelph	405.4	71.07.22	88.93	4.28	1.15	0.14	0.18	0.04	0.02	0.02	94.76	4.04	0.11	0.90	0.16	0.01	0.02	38.84	0.615	355.4	4627.1
Consumers 13120	119	X	Guelph	399.3	71.09.22	89.16	4.25	1.13	0.14	0.19	0.04	0.02	0.03	94.96	3.88	0.12	0.84	0.16	0.01	0.03	38.88	0.614	355.3	4626.1
Consumers 13132	124	G	Guelph	483.1	71.09.12	88.44	3.88	0.86	0.12	0.17	0.04	0.01	0.00	93.52	4.98	0.14	0.88	0.06	0.02	0.06	38.26	0.611	351.3	4603.5
Consumers 13138	158	H	Guelph	0.0	71.03.10	88.08	3.73	1.11	0.11	0.21	0.03	0.03	0.01	93.31	5.48	0.00	0.88	0.31	0.01	0.01	38.45	0.616	351.6	4598.0
Consumers 13138	158	H	Guelph	402.6	71.03.10	88.08	3.73	1.11	0.11	0.21	0.03	0.03	0.01	93.31	5.48	0.00	0.88	0.31	0.01	0.01	38.45	0.616	351.6	4598.0
Consumers 13156a	222	U	Guelph	526.1	72.07.01	81.03	6.73	1.37	0.32	0.19	0.13	0.01	0.05	89.83	10.58	0.25	0.00	0.33	0.01	0.00	39.67	0.661	355.1	4551.3
Consumers 13161	223	H	Guelph	516.3	72.07.20	64.74	4.09	1.19	0.16	0.23	0.05	0.02	0.04	70.52	27.28	0.00	0.00	0.00	2.20	0.00	35.38	0.718	324.5	4310.6
Consumers 13161 1	223	H	Guelph	516.6	72.07.24	85.88	5.46	1.61	0.22	0.31	0.08	0.02	0.04	93.62	6.05	0.31	0.00	0.00	0.02	0.00	39.74	0.635	356.2	4574.3
Consumers 13165	158	J	Guelph	390.1	72.08.25	90.47	3.98	0.94	0.11	0.19	0.05	0.02	0.02	95.78	4.15	0.06	0.00	0.00	0.01	0.00	39.04	0.606	351.4	4592.9
Consumers 13179	222	U	Guelph	533.4	72.07.01	67.31	7.93	2.59	0.91	0.58	0.49	0.03	0.18	80.02	19.68	0.00	0.00	0.23	0.01	0.06	40.62	0.734	353.7	4369.0
Consumers 13252	222	T	Guelph	511.5	73.06.23	87.36	5.60	1.43	0.21	0.25	0.07	0.01	0.18	95.11	4.79	0.10	0.00	0.00	0.00	0.00	40.05	0.628	357.3	4583.8
Consumers 13254	221	Q	Guelph	511.5	73.07.22	86.23	5.23	1.52	0.31	0.21	0.02	0.06	0.03	93.61	6.39	0.00	0.00	0.00	0.00	0.00	39.65	0.630	354.2	4561.7
Consumers 13257	222	R	Guelph	0.0	73.09.14	86.04	5.98	1.55	0.22	0.26	0.08	0.01	0.03	94.17	5.70	0.13	0.00	0.00	0.00	0.00	39.91	0.632	356.8	4575.8
Consumers 13261	221	L	Guelph	524.3	77.08.29	81.18	6.43	1.52	0.46	0.53	0.11	0.01	0.00	90.24	9.74	0.00	0.00	0.00	0.11	0.00	39.93	0.658	354.9	4523.2
Consumers 13262	220	F	Guelph	495.3	77.09.12	86.96	4.84	1.25	0.25	0.36	0.04	0.01	0.01	93.72	5.88	0.38	0.00	0.00	0.02	0.00	39.32	0.628	354.0	4578.6
Consumers 13272	158	I	Guelph	393.2	73.09.13	90.85	4.03	1.00	0.19	0.12	0.02	0.04	0.03	96.28	3.45	0.27	0.00	0.00	0.00	0.00	39.12	0.606	353.0	4607.0
Consumers 13273	158	K	Guelph	0.0	. .	90.32	4.04	1.00	0.20	0.12	0.02	0.04	0.02	95.76	4.21	0.04	0.00	0.00	0.00	0.00	39.11	0.607	351.7	4591.8
Consumers 13274	158	C	Guelph	397.8	73.09.27	90.47	4.07	1.22	0.20	0.15	0.02	0.05	0.03	96.21	3.73	0.06	0.00	0.00	0.00	0.00	39.34	0.609	353.3	4596.5
Consumers 13350	221	P	Guelph	0.0	75.07.07	87.02	4.59	1.50	0.29	0.31	0.07	0.01	0.01	93.80	5.74	0.20	0.22	0.00	0.04	0.00	39.42	0.628	354.9	4583.2
Consumers Amoco 13075	120	Q	Guelph	474.3	69.08.07	89.36	4.47	1.30	0.18	0.30	0.05	0.05	0.04	95.75	4.23	0.00	0.00	0.00	0.02	0.00	39.60	0.616	354.4	4587.8
Consumers Pan Am 13033	52	K	Guelph	361.8	68.11.28	88.34	4.23	1.32	0.20	0.31	0.06	0.05	0.03	94.54	5.42	0.00	0.00	0.00	0.02	0.02	39.40	0.620	352.6	4571.4
Consumers Pan Am 13037	158	A	Guelph	556.3	68.09.19	79.66	6.02	0.93	0.33	0.19	0.02	0.09	0.01	87.25	12.51	0.22	0.00	0.00	0.02	0.00	38.63	0.656	347.2	4495.5
Pembina 289-T-2	289	T	Guelph	0.0	81.10.06	92.70	3.70	0.90	0.00	1.30	0.00	1.40	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	41.83	0.627	366.3	4617.7
Pembina 308-W-2	308	W	Guelph	0.0	81.11.09	90.80	8.91	0.00	0.00	0.00	0.28	0.00	0.00	99.99	0.00	0.00	0.00	0.00	0.00	0.00	40.45	0.602	362.9	4658.4
Anschutz 19-U	19	U	Thor/Grim	0.0	75.09.03	82.06	7.99	2.57	0.25	0.47	0.08	0.06	0.0	93.52	6.22	0.00	0.00	0.21	0.04	0.00	41.20	0.657	363.9	4554.3
Consumers 13011	157	X	Thor/Grim	559.6	71.07.11	90.26	4.48	1.36	0.12	0.25	0.03	0.04	0.4	96.58	3.17	0.01	0.00	0.18	0.01	0.05	39.57	0.609	354.5	4592.8
Consumers 13089	123	T	Thor/Grim	494.7	71.08.24	89.30	3.23	0.79	0.08	0.13	0.03	0.03	.02	93.61	5.95	0.01	0.00	0.42	0.01	0.00	38.28	0.605	345.4	4550.3
Consumers 13096	95	X	Thor/Grim	457.2	71.08.05	89.15	3.72	1.05	0.10	0.20	0.03	0.0	.02	94.30	5.60	0.00	0.00	0.09	0.01	0.00	38.81	0.611	349.1	4568.3
Consumers 13098	96	W	Thor/Grim	472.4	71.08.10	89.05	3.87	1.12	0.11	0.21	0.03	0	0.02	94.44	5.45	0.00	0.00	0.10	0.01	0.00	38.93	0.612	349.9	4569.6
Consumers 13099	122	I	Thor/Grim	487.7	71.08.15	89.33	3.99	1.16	0.11	0.22	0.03	0 3	0.02	94.89	5.04	0.00	0.00	0.06	0.01	0.00	39.06	0.612	350.9	4576.6
Consumers 13109	158	I	Thor/Grim	532.5	71.07.10	89.50	4.62	1.43	0.14	0.27	0.04	0.04	0.02	96.06	3.77	0.00	0.00	0.16	0.01	0.00	39.62	0.613	354.6	4587.5
Consumers 13112	119	P	Thor/Grim	521.3	71.07.27	88.87	3.81	1.11	0.13	0.23	0.04	0.05	0.03	94.27	5.61	0.00	0.00	0.05	0.01	0.06	38.96	0.614	349.9	4566.8
Consumers 13128	123	J	Thor/Grim	486.2	71.08.29	88.97	3.91	1.08	0.10	0.20	0.03	0.03	0.01	94.33	5.60	0.00	0.00	0.06	0.01	0.00	38.88	0.612	349.6	4570.1
Consumers 13138	158	H	Thor/Grim	531.9	71.10.03	89.74	4.32	1.33	0.13	0.24	0.04	0.05	0.04	95.89	3.90	0.00	0.00	0.20	0.01	0.00	39.45	0.611	353.4	4583.7
Consumers 13147	123	H	Thor/Grim	482.5	72.05.20	89.23	3.70	1.05	0.11	0.19	0.03	0.03	0.02	94.36	5.63	0.00	0.00	0.00	0.01	0.00	38.84	0.611	349.3	4571.8
Consumers 13152	122	I	Thor/Grim	0.0	72.08.08	88.30	4.62	1.13	0.11	0.20	0.03	0.02	0.01	94.42	5.35	0.22	0.00	0.00	0.01	0.00	39.08	0.617	352.2	4583.5
Consumers 13153	122	J	Thor/Grim	0.0	72.09.20	89.24	3.79	1.21	0.11	0.21	0.03	0.03	0.05	94.67	5.32	0.00	0.00	0.00	0.01	0.00	39.05	0.613	350.7	4574.7
Consumers 13171	185	C	Thor/Grim	0.0	72.06.26	90.99	4.47	1.26	0.22	0.12	0.04	0.03	0.02	97.15	3.84	0.00	0.00	0.00	0.01	0.00	39.84	0.616	357.3	4641.0
Consumers 13183	156	J	Thor/Grim	528.8	72.08.09	90.02	4.24	1.16	0.12	0.23	0.03	0.07	0.02	95.89	4.10	0.00	0.00	0.00	0.01	0.00	39.34	0.610	353.0	4590.9
Consumers 13201	156	A	Thor/Grim	522.7	72.10.04	89.32	4.14	1.28	0.12	0.24	0.04	0.05	0.01	95.20	4.53	0.00	0.00	0.26	0.01	0.00	39.21	0.611	351.7	4573.5
Consumers 13202	155	F	Thor/Grim	524.3	72.10.09	89.75	4.02	1.22	0.11	0.23	0.04	0.05	0.01	95.43	4.30	0.00	0.00	0.26	0.01	0.00	39.16	0.609	351.5	4576.5
Consumers 13203	156	K	Thor/Grim	533.1	72.10.16	89.18	3.82	1.12	0.11	0.21	0.03	0.04	0.03	94.54	5.45	0.00	0.00	0.00	0.01	0.00	38.98	0.613	350.2	4573.6
Consumers 13214	122	L	Thor/Grim	488.9	73.06.06	89.63	3.79	1.12	0.11	0.21	0.03	0.03	0.03	94.95	5.02	0.02	0.00	0.00	0.01	0.00	39.01	0.611	350.6	4579.6
Consumers 13221	123	O	Thor/Grim	489.2	73.07.13	90.21	3.46	1.03	0.20	0.10	0.03	0.03	0.02	95.08	4.92	0.00	0.00	0.00	0.00	0.00	38.86	0.607	349.6	4580.0
Consumers 13224	121	A	Thor/Grim	469.1	73.08.07	85.91	5.94	1.89	0.24	0.11	0.03	0.03	0.02	94.17	5.83	0.00	0.00	0.00	0.00	0.00	39.96	0.632	356.6	4570.9
Consumers 13226	155	A	Thor/Grim	512.4	73.06.21	89.30	5.22	1.03	0.10	0.18	0.03	0.03	0.03	95.92	4.08	0.00	0.00	0.00	0.00	0.00	39.47	0.612	354.2	4594.9
Consumers 13229	122	A	Thor/Grim	474.0	73.06.27	88.68	5.39	1.15	0.11	0.21	0.03	0.03	0.03	95.63	4.37	0.00	0.00	0.00	0.00	0.00	39.58	0.616	354.8	4590.9
Consumers 13231	122	U	Thor/Grim	0.0	73.08.15	83.96	3.49	0.98	0.18	0.09	0.03	0.03	0.03	88.79	11.18	0.00	0.00	0.00	0.03	0.00	37.97	0.632	342.1	4502.5
Consumers 13272	158	I	Thor/Grim	528.5	73.09.21	91.35	3.98	1.24	0.22	0.11	0.04	0.03	0.03	97.00	3.00	0.00	0.00	0.00	0.00	0.00	39.43	0.604	353.8	4603.8
Consumers 13274	158	C	Thor/Grim	528.8	73.09.30	89.91	4.21	1.36	0.25	0.13	0.05	0.04	0.05	96.00	4.00	0.00	0.00	0.00	0.00	0.00	39.52	0.612	353.9	4590.4
Consumers 13276	122	U	Thor/Grim	502.7	74.06.05	90.76	3.41	1.08	0.15	0.22	0.03	0.03	0.03	95.71	4.24	0.04	0.00	0.00	0.02	0.00	39.02	0.606	350.9	4589.1
Consumers 13279	125	D	Thor/Grim	0.0	74.09.03	88.70	2.01	0.63	0.14	0.09	0.02	0.02	0.02	91.63	8.33	0.00	0.00	0.00	0.04	0.00	37.66	0.609	340.9	4536.6
Consumers 13282	156	U	Thor/Grim	547.0	74.08.22	89.55	3.62	1.23	0.25	0.16	0.03	0.04	0.03	94.91	5.06	0.00	0.00	0.00	0.03	0.00	39.10	0.612	350.9	4576.7
Consumers 13286	154	F	Thor/Grim	519.1	74.06.05	91.00	3.11	1.07	0.14	0.22	0.03	0.03	0.02	95.62	4.34	0.00	0.00	0.00	0.04	0.00	38.89	0.604	349.9	4586.0
Consumers 13297	156	I	Thor/Grim	0.0	74.08.15	90.52	3.55	1.32	0.17	0.28	0.04	0.04	0.02	95.94	4.04	0.00	0.00	0.00	0.02	0.00	39.31	0.609	352.4	4588.7
Consumers 13299	155	P	Thor/Grim	0.0	. .	90.50	2.75	1.20	0.16	0.25	0.04	0.03	0.03	94.96	5.01	0.00	0.00	0.00	0.03	0.00	38.85	0.608	349.1	4575.5

GAS ANALYSIS SUMMARY

Wellname	Lot	Conc	Formation	Depth	Date	C1	C2	C3	I_C4	N_C4	I_C5	N_C5	C6+	Total	N_2	CO_2	H_2O	He	O_2	H_2	Gross Heat MJ/m³	Relat. Dens.	Crit. Temp. Deg R	Crit. Press. kPa ABS
Consumers 13300	94	K	Thor/Grim	0.0	74.09.01	90.07	2.80	0.96	0.17	0.11	0.02	0.02	0.02	94.17	5.80	0.00	0.00	0.00	0.03	0.00	38.46	0.606	346.8	4568.3
Consumers 13312	126	G	Thor/Grim	0.0	74.11.05	79.85	2.83	0.96	0.17	0.11	0.02	0.02	11.49	95.45	4.52	0.00	0.00	0.00	0.03	0.00	54.65	0.879	413.8	4400.1
Consumers 13327	95	U	Thor/Grim	0.0	75.06.02	90.12	2.90	0.78	0.10	0.13	0.02	0.02	0.01	94.08	5.91	0.00	0.00	0.00	0.01	0.00	38.33	0.604	346.0	4568.5
Consumers 13328	125	A	Thorold	456.3	75.05.20	86.66	3.61	1.43	0.16	0.29	0.04	0.04	0.01	92.24	3.24	0.00	0.00	0.00	1.02	0.00	37.79	0.593	341.1	4440.5
Consumers 13338	159	U	Thor/Grim	554.1	76.06.25	85.74	4.18	2.11	0.37	0.72	0.13	0.16	0.09	93.50	6.49	0.01	0.00	0.00	0.00	0.00	40.47	0.645	357.6	4547.3
Consumers 13395	183	H	Thor/Grim	571.5	77.06.08	89.04	4.49	1.43	0.14	0.29	0.04	0.04	0.02	95.49	4.44	0.05	0.00	0.00	0.02	0.00	39.54	0.617	354.3	4587.1
Consumers 13396	183	S	Thor/Grim	573.6	77.06.09	89.93	4.58	1.54	0.16	0.39	0.03	0.04	0.01	96.68	3.30	0.00	0.00	0.00	0.02	0.00	39.88	0.614	356.5	4599.0
Consumers 13397	183	P	Thor/Grim	0.0	77.06.22	89.86	4.59	1.47	0.17	0.39	0.04	0.04	0.01	96.57	3.40	0.00	0.00	0.00	0.03	0.00	39.84	0.615	356.2	4597.9
Consumers 13403	158	D	Thor/Grim	0.0	77.06.28	88.73	4.28	1.37	0.16	0.33	0.04	0.04	0.01	94.96	5.01	0.00	0.00	0.00	0.03	0.00	39.42	0.618	353.1	4578.1
Consumers 13407	121	K	Thor/Grim	145.8	77.07.14	86.92	3.86	0.97	0.13	0.21	0.03	0.02	0.00	92.14	7.16	0.00	0.00	0.00	0.70	0.00	38.36	0.621	347.2	4556.6
Consumers 13410	186	D	Thor/Grim	0.0	77.09.01	88.48	4.27	1.33	0.16	0.35	0.04	0.06	0.02	94.71	5.29	0.00	0.00	0.00	0.00	0.00	39.43	0.619	352.9	4574.0
Consumers 13411	186	F	Thor/Grim	0.0	77.09.12	89.34	4.37	1.24	0.19	0.34	0.03	0.02	0.01	95.54	4.38	0.08	0.00	0.00	0.00	0.00	39.44	0.615	353.8	4588.7
Consumers 13412	186	F	Thor/Grim	570.0	77.08.08	88.91	4.39	1.26	0.15	0.29	0.04	0.03	0.01	95.08	4.77	0.13	0.00	0.00	0.02	0.00	39.33	0.616	353.3	4585.8
Consumers 13413	155	Q	Thor/Grim	0.0	77.08.10	89.09	3.74	1.20	0.14	0.28	0.03	0.03	0.01	94.52	5.46	0.00	0.00	0.00	0.02	0.00	39.04	0.614	350.5	4572.6
Consumers 13414	95	N	Thor/Grim	0.0	..	87.63	3.58	1.06	0.12	0.22	0.02	0.02	0.01	92.66	7.07	0.00	0.00	0.00	0.27	0.00	38.51	0.618	347.3	4554.8
Consumers 13422	155	L	Thor/Grim	534.6	77.09.25	93.37	3.52	0.24	0.03	0.02	0.00	0.00	0.00	97.18	2.79	0.00	0.00	0.00	0.03	0.00	38.40	0.586	348.2	4613.3
Consumers 13435	154	S	Thor/Grim	0.0	77.09.01	88.54	3.60	0.96	0.11	0.21	0.02	0.02	0.01	93.47	6.53	0.00	0.00	0.00	0.00	0.00	38.62	0.613	347.7	4560.9
Consumers 13573	154	V	Thor/Grim	547.0	79.07.06	90.13	3.22	0.66	0.11	0.19	0.02	0.01	0.00	94.34	5.64	0.00	0.00	0.00	0.02	0.00	38.41	0.604	346.8	4572.8
Consumers Amoco 13026	124	D	Thor/Grim	457.2	69.06.10	90.56	3.35	0.64	0.10	0.12	0.02	0.01	0.01	94.81	5.18	0.00	0.00	0.00	0.01	0.00	38.45	0.602	347.3	4579.4
Consumers Amoco 13066	124	Y	Thor/Grim	480.7	69.07.12	90.68	3.25	0.72	0.12	0.15	0.03	0.02	0.01	94.98	5.01	0.00	0.00	0.00	0.01	0.00	38.56	0.603	347.8	4580.3
Consumers Amoco 13092	123	A	Thor/Grim	478.5	71.08.05	88.81	3.70	1.03	0.10	0.19	0.03	0.03	0.02	93.91	6.00	0.00	0.00	0.08	0.01	0.00	38.74	0.612	348.5	4563.9
Consumers Pan Am 13034	100	I	Thor/Grim	451.7	68.12.01	87.00	4.36	1.42	0.21	0.33	0.05	0.05	0.02	93.44	6.53	0.00	0.00	0.00	0.03	0.00	39.35	0.626	352.0	4558.2
Consumers Pan Am 13035	101	K	Thor/Grim	488.9	68.11.22	87.23	4.78	1.58	0.24	0.39	0.07	0.06	0.02	94.37	5.62	0.00	0.00	0.00	0.01	0.00	39.80	0.628	355.0	4568.7
Consumers Pan Am 13035	101	K	Thor/Grim	488.9	69.06.23	88.11	4.86	1.32	0.22	0.33	0.06	0.06	0.03	94.99	4.99	0.00	0.00	0.00	0.02	0.00	39.69	0.622	354.7	4578.4
Consumers Pan Am 13037	158	A	Thor/Grim	481.6	68.09.19	90.17	4.27	1.21	0.19	0.26	0.05	0.04	0.03	96.22	3.76	0.00	0.00	0.00	0.02	0.00	39.51	0.611	354.0	4594.0
Consumers Pan Am 13039	156	P	Thor/Grim	522.4	68.09.19	89.81	4.19	1.17	0.18	0.28	0.05	0.05	0.02	95.75	4.24	0.00	0.00	0.00	0.01	0.00	39.41	0.612	353.2	4587.9
Consumers Pan Am 13041	187	D	Thor/Grim	563.9	68.09.23	89.82	3.86	1.01	0.16	0.22	0.04	0.03	0.02	95.16	4.83	0.00	0.00	0.00	0.01	0.00	39.05	0.610	350.6	4581.5
Consumers Pan Am 13056	100	J	Thor/Grim	462.1	68.12.08	88.82	4.52	1.34	0.21	0.34	0.06	0.07	0.02	95.38	4.59	0.00	0.00	0.00	0.01	0.00	39.65	0.619	354.5	4581.6
Consumers Pan Am 13056	100	J	Thor/Grim	463.3	69.06.18	88.69	4.72	1.62	0.22	0.40	0.09	0.09	0.23	96.06	3.72	0.00	0.00	0.22	0.00	0.00	40.32	0.625	357.9	4578.4
Consumers Pan Am 13056	100	J	Thor/Grim	463.9	68.12.08	89.04	4.64	1.43	0.24	0.36	0.07	0.06	0.03	95.87	4.11	0.00	0.00	0.00	0.02	0.00	39.86	0.619	355.9	4587.9
Place L.E. Charlotteville # 14	63	E	Thorold	364.8	67.10.30	83.67	4.27	1.12	0.16	0.24	0.04	0.03	0.03	89.56	10.10	0.00	0.00	0.34	0.00	0.00	38.42	0.634	344.9	4500.9
Consumers 11953	26	N	Grim/Whirl	327.7	69.05.03	87.52	4.65	1.07	0.18	0.21	0.05	0.02	0.01	93.71	6.27	0.00	0.00	0.00	0.02	0.00	39.10	0.620	351.0	4565.3
Consumers 11954	27	N	Grim/Whirl	335.3	68.06.19	86.51	4.68	1.22	0.20	0.24	0.05	0.02	0.01	92.93	7.05	0.00	0.00	0.00	0.02	0.00	39.13	0.626	350.8	4554.6
Consumers 11956	35	A	Grimsby	351.1	68.06.07	85.34	7.74	1.81	0.30	0.34	0.09	0.05	0.04	95.71	4.28	0.00	0.00	0.00	0.01	0.00	40.99	0.640	363.6	4591.0
Consumers 11958	35	D	Grim/Whirl	338.9	67.07.20	90.67	1.19	0.21	0.03	0.03	0.01	0.01	0.00	92.15	7.81	0.00	0.00	0.00	0.03	0.00	37.07	0.595	337.6	4544.4
Consumers 13055 Sample 2	119	U	Grimsby	519.4	71.06.04	87.87	4.66	1.56	0.14	0.33	0.05	0.07	0.03	94.71	4.95	0.00	0.00	0.28	0.06	0.00	39.59	0.621	353.9	4566.1
Consumers 13129	123	L	Grimsby	487.1	71.09.06	88.93	3.60	1.03	0.10	0.18	0.03	0.03	0.02	93.92	6.05	0.00	0.00	0.00	0.01	0.02	38.72	0.612	348.4	4565.9
Consumers 13130	123	A	Grimsby	478.5	71.09.17	88.94	3.79	1.14	0.11	0.21	0.03	0.03	0.03	94.28	5.40	0.00	0.00	0.31	0.01	0.00	38.86	0.611	349.2	4560.6
Consumers 13139	158	K	Grimsby	542.5	71.10.13	89.38	4.32	1.31	0.12	0.24	0.04	0.04	0.03	95.48	4.15	0.00	0.00	0.36	0.01	0.00	39.31	0.611	352.4	4574.0
Consumers 13183	156	J	Grimsby	539.5	73.05.18	89.97	3.90	1.08	0.11	0.20	0.03	0.04	0.03	95.36	4.64	0.00	0.00	0.00	0.00	0.00	39.08	0.609	351.1	4584.1
Consumers 13185	152	B	Grimsby	521.2	72.09.28	90.75	2.81	0.43	0.04	0.07	0.02	0.01	0.01	94.14	5.44	0.00	0.00	0.41	0.01	0.00	37.90	0.595	343.4	4558.6
Consumers 13189	176	U	Grimsby	638.6	72.09.20	83.01	5.00	1.93	0.17	0.36	0.05	0.06	0.03	90.61	9.03	0.00	0.00	0.35	0.01	0.00	39.37	0.643	351.0	4510.9
Consumers 13210	155	O	Grimsby	539.5	73.05.18	89.97	3.90	1.08	0.11	0.20	0.03	0.04	0.03	95.36	4.64	0.00	0.00	0.00	0.00	0.00	39.08	0.609	351.1	4584.1
Consumers 13243	223	A	Grimsby	635.5	73.06.16	85.62	5.02	2.01	0.17	0.38	0.05	0.06	0.06	93.37	6.62	0.00	0.00	0.00	0.01	0.00	39.94	0.637	355.5	4555.5
Consumers 16048	36	A	Grimsby	350.2	68.06.04	84.62	7.51	1.90	0.24	0.33	0.06	0.04	0.02	94.72	5.26	0.00	0.00	0.00	0.02	0.00	40.71	0.641	361.7	4579.5
Consumers Amoco 13034	100	I	Grimsby	463.3	69.07.03	87.85	4.29	1.37	0.21	0.33	0.05	0.05	0.02	94.17	5.82	0.00	0.00	0.00	0.01	0.00	39.40	0.622	352.5	4567.0
Consumers Amoco 13068	156	F	Grimsby	401.4	69.09.29	89.64	4.31	1.18	1.19	0.28	0.05	0.05	0.03	96.73	3.93	0.00	0.00	0.32	0.02	0.00	40.60	0.631	360.2	4614.2
Consumers Amoco 13105	120	U	Grimsby	506.9	69.09.21	88.07	4.59	1.30	0.19	0.31	0.06	0.05	0.03	94.60	5.02	0.00	0.00	0.36	0.02	0.00	39.41	0.618	352.6	4562.2
Consumers Pan Am 13004	100	G	Grimsby	463.3	67.10.18	88.60	4.57	1.53	0.13	0.24	0.03	0.04	0.02	95.16	4.82	0.00	0.00	0.00	0.02	0.00	39.53	0.618	354.0	4581.5
Consumers Pan Am 13022	155	Y	Grimsby	552.0	68.09.14	89.76	4.03	1.08	0.16	0.23	0.04	0.03	0.01	95.34	4.65	0.00	0.00	0.00	0.01	0.00	39.15	0.610	351.6	4583.9
Consumers Pan Am 13052	156	S	Grimsby	539.5	68.09.25	89.44	3.89	1.09	0.17	0.26	0.05	0.05	0.04	94.99	4.99	0.00	0.00	0.00	0.02	0.00	39.18	0.613	351.4	4578.1
Foreign Wingy 2	61	E	Grimsby	0.0	70.05.01	86.40	2.80	0.50	0.10	0.10	0.00	0.00	0.00	89.90	9.20	0.60	0.00	0.30	0.00	0.00	37.28	0.618	340.9	4532.3
Foreign Wingy No. 2	61	E	Grimsby	0.0	70.05.01	86.70	2.90	0.50	0.10	0.10	0.00	0.00	0.00	90.30	9.00	0.40	0.00	0.30	0.00	0.00	37.41	0.616	341.0	4529.6
Consumers 12935	36	M	Whirlpool	391.4	67.07.30	84.87	7.56	2.11	0.14	0.24	0.03	0.01	0.00	94.96	4.98	0.00	0.00	0.00	0.03	0.00	40.61	0.638	361.5	4583.8
Consumers 16047	26	X	Whirlpool	349.3	68.06.25	84.17	7.04	1.93	0.24	0.33	0.06	0.03	0.02	93.82	6.17	0.00	0.00	0.00	0.01	0.00	40.46	0.643	359.7	4567.0
Consumers 31839	26	L	Whirlpool	335.3	69.10.15	83.97	6.52	1.77	0.25	0.32	0.06	0.03	0.01	92.93	6.61	0.00	0.00	0.44	0.02	0.00	39.98	0.638	356.1	4541.6
Consumers 31841	27	G	Whirlpool	324.0	70.05.15	85.47	7.23	1.71	0.29	0.32	0.08	0.04	0.04	95.18	4.81	0.00	0.00	0.00	0.01	0.00	40.67	0.638	361.4	4584.1
Consumers 31848	27	F	Whirlpool	326.4	69.10.08	85.22	6.89	1.61	0.28	0.32	0.07	0.03	0.01	94.43	5.19	0.00	0.00	0.36	0.02	0.00	40.26	0.634	358.4	4563.9

GAS ANALYSIS SUMMARY

Wellname	Lot	Conc	Formation	Depth	Date	C1	C2	C3	I_C4	N_C4	I_C5	N_C5	C6+	Total	N_2	CO_2	H_2O	He	O_2	H_2	Gross Heat MJ/m³	Relat. Dens.	Crit. Temp. Deg R	Crit. Press. kPa ABS
Township L.Erie																								
Port Maitland Compressor			Pipeline	0.0	81.03.31	84.05	6.52	2.07	0.22	0.45	0.09	0.07	0.04	93.51	6.08	0.15	0.00	0.23	0.00	0.00	40.45	0.645	359.5	4556.8
Port Maitland Compressor			Pipeline	0.0	81.03.31	84.10	6.50	2.05	0.21	0.39	0.03	0.07	0.04	93.39	6.25	0.07	0.00	0.22	0.00	0.00	40.30	0.642	358.4	4552.5
Port Maitland Compressor			Pipeline	0.0	81.03.31	84.12	6.51	2.05	0.21	0.39	0.08	0.07	0.04	93.47	6.24	0.04	0.00	0.22	0.00	0.00	40.38	0.643	358.7	4553.
Port Maitland Compressor			Pipeline	0.0	81.03.31	84.35	6.52	2.06	0.22	0.40	0.09	0.07	0.04	93.75	5.95	0.05	0.00	0.22	0.00	0.00	40.46	0.643	359.2	4556.6
Port Maitland Compressor			Pipeline	0.0	81.03.31	83.88	6.73	2.20	0.24	0.43	0.19	0.08	0.08	93.83	5.99	0.03	0.00	0.24	0.00	0.00	40.85	0.649	361.4	4557.6
Port Maitland Compressor			Pipeline	0.0	81.03.31	84.02	6.53	2.07	0.22	0.42	0.09	0.08	0.05	93.48	6.24	0.03	0.00	0.22	0.00	0.00	40.48	0.644	359.1	4551.9
Port Maitland Compressor			Pipeline	0.0	81.03.31	84.16	6.59	2.00	0.22	0.40	0.09	0.07	0.04	93.57	6.07	0.03	0.00	0.21	0.00	0.00	40.40	0.642	358.7	4551.2
Port Maitland Compressor			Pipeline	0.0	81.03.31	83.53	6.83	2.24	0.25	0.44	0.10	0.08	0.05	93.52	6.13	0.03	0.00	0.24	0.00	0.00	40.70	0.648	360.4	4549.6
Port Maitland Compressor			Pipeline	0.0	81.03.31	83.57	6.79	2.23	0.25	0.52	0.10	0.07	0.05	93.58	6.12	0.03	0.00	0.24	0.00	0.00	40.76	0.648	360.8	4551.4
Port Maitland Compressor			Pipeline	0.0	81.03.31	84.08	6.52	2.07	0.22	0.40	0.08	0.07	0.04	93.48	6.43	0.05	0.00	0.02	0.00	0.00	40.46	0.645	359.4	4559.9
Port Maitland Compressor			Pipeline	0.0	81.03.31	83.99	6.48	2.04	0.21	0.39	0.09	0.08	0.04	93.32	6.36	0.06	0.00	0.22	0.00	0.00	40.37	0.644	358.6	4551.3
COUNTY LAMBTON																								
Township City Of Sarnia																								
Sifto No. 3 (Dominion Salt Co)			Dundee	117.3	66.09.06	78.70	8.30	0.00	0.30	0.40	0.00	0.00	0.00	87.70	8.90	3.20	0.00	0.00	0.00	0.20	38.07	0.671	358.8	4624.6
Township Dawn																								
Water Well 2 Drift Gas	31	I	Drift	0.0	70.05.14	78.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	78.30	17.00	1.00	0.00	0.00	3.70	0.00	33.55	0.654	323.1	4472.5
Water Well 3 Drift Gas	31	I	Drift	0.0	70.05.14	47.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.50	42.80	0.10	0.00	0.00	9.60	0.00	28.17	0.785	287.5	4152.0
M. Lachton No. 1	24	II	Dundee	0.0	70.05.14	85.40	5.00	1.50	0.40	0.40	0.00	0.00	0.00	92.70	6.70	0.30	0.00	0.00	0.10	0.20	39.41	0.634	353.8	4558.3
Union Dawn 8-32-V	32	V	A2/A1/Guelph	494.4	70.07.17	85.17	5.99	2.54	0.94	0.59	0.23	0.10	0.09	95.65	3.98	0.24	0.00	0.13	0.00	0.00	41.84	0.657	367.5	4576.8
Union Dawn No. 176	23	III	A2 Carbonate	488.3	54.09.16	81.99	4.54	2.21	1.00	0.00	0.80	0.00	0.00	90.54	9.18	0.13	0.00	0.15	0.00	0.00	40.52	0.666	356.6	4505.4
Coneybeare 5	24	V	A1 Carbonate	533.4	31.10.29	90.05	1.36	2.07	0.54	0.43	0.30	0.00	0.00	94.75	4.49	0.00	0.00	0.20	0.56	0.00	39.42	0.621	351.8	4560.9
Heritage Dawn 1-26-II 1	26	II	A1 Carbonate	0.0	76.12.21	85.79	5.68	2.44	0.95	0.66	0.27	0.14	0.00	95.93	3.36	0.71	0.00	0.00	0.00	0.00	41.68	0.657	368.9	4602.5
Heritage Dawn 1-26-II 2	26	II	A1 Carbonate	0.0	76.12.22	86.61	5.04	2.27	0.77	0.50	0.22	0.10	0.00	95.51	3.84	0.65	0.00	0.00	0.00	0.00	40.98	0.647	364.5	4598.3
Heritage Dawn 1-26-II 3	26	II	A1 Carbonate	550.2	78.05.02	88.81	3.73	1.34	0.39	0.29	0.10	0.04	0.02	94.72	5.20	0.00	0.00	0.06	0.00	0.03	39.45	0.619	352.5	4568.3
Ram 52 Dawn 4-32-VIII	32	VIII	A1/Guelph	496.5	78.08.16	79.94	5.21	2.72	0.83	0.47	0.12	0.05	0.00	89.34	10.37	0.00	0.00	0.25	0.00	0.04	40.39	0.669	355.8	4486.9
Union Mcclure Dawn 8-29-V	29	V	A1/Guelph	534.3	76.05.25	85.21	5.84	1.98	0.79	0.60	0.20	0.08	0.06	94.76	5.03	0.00	0.00	0.17	0.00	0.04	41.18	0.648	362.5	4558.3
Union Dawn 2-26-II	26	II	Guelph	0.0	76.12.22	93.12	3.69	0.19	0.02	0.03	0.01	0.00	0.00	97.06	2.54	0.38	0.00	0.00	0.00	0.00	38.33	0.589	349.5	4626.3
Union Dawn 2-26-II	26	II	Guelph	0.0	76.12.21	91.01	3.61	0.18	0.01	0.03	0.00	0.00	0.00	94.84	4.78	0.37	0.00	0.00	0.00	0.00	37.99	0.597	346.6	4598.6
Union Dawn 4-28-III	28	III	Guelph	577.3	71.11.16	82.72	5.33	2.22	0.98	0.61	0.22	0.10	0.09	92.27	7.40	0.10	0.00	0.23	0.00	0.00	41.06	0.663	360.7	4525.1
Union Dawn No. 156	33	II	Guelph	524.0	54.09.16	83.98	4.89	2.65	1.89	0.00	0.52	0.00	0.00	93.93	5.77	0.20	0.00	0.10	0.00	0.00	41.76	0.666	365.1	4546.1
Township Enniskillen																								
Mcclure Enniskillen 1-16-IV	16	IV	A1/Guelph	552.0	75.09.16	81.79	5.18	1.96	0.80	0.75	0.23	0.11	0.07	90.89	8.80	0.00	0.00	0.24	0.00	0.07	40.65	0.664	357.4	4503.4
Ram 61 Enniskillen 2-15-VI	15	VI	A1 Carbonate	0.0	79.04.01	80.57	1.90	1.07	0.23	0.33	0.09	0.06	0.02	84.27	15.36	0.00	0.00	0.13	0.00	0.22	37.20	0.647	334.8	4428.4
Clarke Enniskillen 1-1-IV	1	IV	Guelph	639.2	77.07.11	84.59	4.60	2.38	0.24	0.27	0.06	0.04	0.01	92.19	7.27	0.31	0.00	0.21	0.00	0.02	39.62	0.641	354.4	4544.6
Ram 15 1	17	X	Guelph	0.0	72.09.12	20.99	14.47	30.70	7.16	12.59	4.51	2.90	2.21	95.53	1.21	2.08	0.00	0.00	0.00	0.00	85.47	1.424	601.2	4236.2
Ram 15 1	17	X	Guelph	0.0	72.09.12	67.73	8.08	9.31	1.51	2.36	0.75	0.50	0.45	90.69	6.05	2.83	0.00	0.01	0.00	0.00	48.35	0.825	411.8	4548.4
Union Dawn No. 167	28	I	Guelph	473.4	54.09.16	80.27	4.93	2.75	1.17	0.00	0.59	0.00	0.00	89.71	9.94	0.17	0.00	0.18	0.00	0.00	40.72	0.675	357.9	4495.7
Union Enniskillen	1	V	Guelph	654.4	54.09.16	84.11	3.01	2.28	1.01	0.00	0.47	0.00	0.00	90.88	8.79	0.11	0.00	0.22	0.00	0.00	39.81	0.651	352.3	4506.9
Township Moore																								
Union Imperial No.20	10	II	A2/A1/Guelph	563.9	50.11.07	87.30	4.90	2.20	1.20	0.00	0.00	0.00	0.00	95.60	3.60	0.00	0.00	0.00	0.10	0.00	40.46	0.628	358.5	4555.4
Consumers 2994 Poland 4-9-V	9	V	A1/Guelph	0.0	71.11.10	89.87	4.09	1.96	0.69	0.46	0.12	0.06	0.06	97.31	2.64	0.04	0.00	0.00	0.01	0.00	40.75	0.626	360.9	4597.4
Consumers 617 7 Bayington 7-10-	10	V	A1/Guelph	0.0	71.11.10	90.07	3.97	1.94	0.71	0.44	0.11	0.05	0.05	97.34	2.64	0.04	0.00	0.00	0.01	0.00	40.68	0.624	360.5	4599.0
Kimball 14	19	V	A1/GUELPH	635.5	. .	85.97	2.41	1.60	1.38	0.00	0.58	0.00	0.00	91.94	7.03	0.92	0.00	0.00	0.11	0.00	39.66	0.651	355.2	4557.3
Union Imperial No. 20	10	II	A1/GUELPH	563.9	51.09.21	83.41	4.02	1.88	1.63	0.00	0.00	0.43	0.00	91.37	8.07	0.40	0.00	0.16	0.00	0.00	40.35	0.660	357.0	4525.0
Dow Moore 2A 20 XII	20	XII	GUELPH	239.0	80.06.04	89.44	3.63	2.49	1.22	0.73	0.00	0.00	0.00	97.51	2.41	0.00	0.00	0.00	0.00	0.08	41.32	0.633	363.6	4589.1
Gibraltar 7	28	II	GUELPH	734.6	67.03.28	88.14	4.46	2.32	0.99	0.66	0.23	0.10	0.09	96.99	2.91	0.00	0.00	0.10	0.00	0.00	41.63	0.642	365.0	4580.9
Gibraltar NO 7	28	II	GUELPH	734.6	66.05.27	88.18	4.51	2.18	0.94	0.59	0.24	0.10	0.10	96.84	2.93	0.13	0.00	0.10	0.00	0.00	41.44	0.641	364.5	4585.7
Imp Colinville NO 6	17	VIII	GUELPH	625.4	54.09.15	86.22	2.52	1.51	1.18	0.00	0.51	0.00	0.00	91.94	7.62	0.32	0.00	0.12	0.00	0.00	39.54	0.642	351.8	4531.2
Imp. Moore No 21-9	21	IX	GUELPH	640.1	54.09.15	86.64	2.73	1.50	1.25	0.00	0.50	0.00	0.00	92.62	7.06	0.22	0.00	0.10	0.00	0.00	39.76	0.640	352.9	4536.3

GAS ANALYSIS SUMMARY

Wellname	Lot	Conc	Formation	Depth	Date	C1	C2	C3	I_C4	N_C4	I_C5	N_C5	C6+	Total	N_2	CO_2	H_2O	He	O_2	H_2	Gross Heat MJ/m³	Relat. Dens.	Crit. Temp. Deg R	Crit. Press. kPa ABS
Payne Field	PAYNEFIELD		GUELPH	0.0	52.12.16	87.80	4.50	1.80	1.00	0.00	0.20	0.00	0.00	95.30	4.90	0.10	0.10	0.00	0.00	0.00	40.37	0.636	359.4	4596.9
Payne No. 1	21	VII	GUELPH	605.3	. .	85.69	2.64	1.46	1.76	0.00	0.53	0.00	0.00	92.08	7.59	0.33	0.00	0.00	0.00	0.00	40.10	0.651	354.7	4531.6
Payne Union 13	22	VI	GUELPH	605.3	66.11.04	93.42	0.01	0.08	0.07	0.00	0.22	0.00	0.00	93.80	5.91	0.09	0.00	0.00	0.05	0.00	37.06	0.585	337.6	4559.0
Ram 68 Moore 8-4-II	4	II	GUELPH	636.7	79.07.17	84.06	6.65	2.58	1.21	0.61	0.19	0.08	0.00	95.38	4.50	0.00	0.00	0.10	0.00	0.02	42.12	0.661	368.3	4565.2
Waubuno No. 1	9	II	GUELPH	563.9	57.02.19	86.40	4.50	2.30	1.70	0.00	0.50	0.00	0.00	95.40	4.60	0.00	0.00	0.00	0.00	0.00	41.54	0.651	363.7	4562.2
Waubuno	9	II	GUELPH	563.9	52.12.16	87.50	4.00	2.10	1.50	0.00	0.30	0.00	0.00	95.40	4.20	0.00	0.00	0.00	0.00	0.00	40.80	0.636	359.3	4552.7
Waubuno 2	29	II	GUELPH	563.9	57.02.12	86.70	4.50	2.20	1.70	0.00	0.50	0.00	0.00	95.60	4.40	0.00	0.00	0.00	0.00	0.00	41.51	0.650	363.6	4565.0
Waubuno Loop	9	II	Guelph	575.8	57.01.31	88.20	4.30	2.20	1.40	0.00	0.40	0.00	0.20	96.70	3.20	0.00	0.00	0.00	0.00	0.00	41.50	0.642	363.7	4576.0
Township Sarnia																								
(Plank Rd. By Dome Property)			Drift	0.0	72.01.01	94.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	94.80	5.10	0.00	0.00	0.00	0.00	0.00	36.89	0.574	336.9	4572.6
Shell Chippewa 9 1 R2	9	1 R2	Guelph	208.9	80.08.08	90.56	3.36	2.00	0.91	0.54	0.00	0.00	0.00	97.37	2.54	0.00	0.00	0.00	0.00	0.09	40.53	0.621	359.2	4593.0
Shell Sarnia	1	III	A1/Guelph	698.0	79.09.25	90.14	3.99	1.84	0.78	0.53	0.22	0.11	0.08	97.69	2.11	0.18	0.00	0.00	0.00	0.00	41.00	0.629	362.6	4603.4
Township Sombra																								
Imp. Sombra 6-XIV	6	XIV	Dundee	0.0	70.06.03	60.30	7.70	0.10	0.00	0.00	0.00	0.00	0.00	68.10	27.50	3.70	0.00	0.00	0.00	0.40	34.47	0.738	332.9	4390.2
Imperial Sombra 1-14-13	14	13	A2/A1/Guelph	559.3	66.08.09	86.73	4.68	2.15	0.86	0.57	0.23	0.11	0.16	95.49	4.30	0.04	0.00	0.14	0.00	0.03	41.29	0.645	362.7	4563.9
Imperial Sombra 14-14	14	14	A2/A1/Guelph	704.1	65.10.14	86.19	4.83	2.44	1.08	0.67	0.26	0.12	0.11	95.70	4.09	0.07	0.00	0.14	0.00	0.00	41.77	0.653	365.5	4564.9
Lenna No. 1	26	7	A2 Carbonate	498.7	66.05.27	81.33	6.60	2.89	0.53	0.59	0.15	0.10	0.07	92.26	7.43	0.13	0.00	0.18	0.00	0.00	41.30	0.668	363.4	4534.1
I.O.E. Sombra 14-14	14	14	A1/Guelph	603.5	65.06.09	86.12	5.09	2.33	0.92	0.63	0.24	0.12	0.19	95.64	4.16	0.04	0.00	0.14	0.00	0.02	41.69	0.652	365.1	4564.4
Imp. Sombra 1-14-XIII	14	XIII	A1/Guelph	559.3	69.01.31	83.96	6.04	2.90	1.35	0.96	0.40	0.20	0.23	96.04	3.73	0.10	0.00	0.12	0.00	0.01	43.29	0.678	374.1	4562.0
Imp. Sombra 14-XIV	14	XIV	A1/Guelph	0.0	65.10.14	84.50	5.80	2.70	1.80	0.70	0.00	0.00	0.00	95.50	4.20	0.10	0.02	0.10	0.00	0.20	42.19	0.662	368.8	4566.5
Imp. Sombra 14-XIV	14	XIV	A1/Guelph	603.5	68.01.12	84.68	5.66	2.56	1.08	0.73	0.25	0.12	0.10	95.18	4.23	0.46	0.00	0.13	0.00	0.00	41.93	0.663	368.4	4575.6
Imperial Sombra 14-14	14	14	A1/Guelph	603.5	66.05.27	87.03	4.68	2.14	0.83	0.54	0.21	0.09	0.09	95.61	4.19	0.04	0.00	0.13	0.00	0.03	41.11	0.642	362.0	4568.0
Imperial Sombra 14-14	14	14	A1/Guelph	603.5	66.05.27	87.09	4.46	2.18	0.93	0.57	0.22	0.09	0.08	95.62	4.12	0.13	0.00	0.13	0.00	0.00	41.16	0.642	362.5	4570.4
U.B. 33	8	XII	A1/Guelph	627.3	79.10.01	75.33	10.67	4.94	2.09	1.56	0.59	0.32	0.26	95.76	4.12	0.00	0.00	0.09	0.00	0.03	47.24	0.747	396.7	4541.5
B.P.-Triad-imp. Sombra 15-15	15	15	Guelph	660.5	66.03.14	87.91	4.64	2.15	0.89	0.61	0.22	0.10	0.10	96.62	3.19	0.06	0.00	0.13	0.00	0.00	41.39	0.641	363.9	4580.2
Baslen 18	9	XII	Guelph	627.0	79.10.01	77.94	9.24	4.06	1.36	1.23	0.46	0.31	0.24	94.84	5.02	0.00	0.00	0.10	0.00	0.04	45.14	0.716	384.8	4541.6
Bickford No. 19	6	XI	Guelph	592.1	54.09.15	84.75	3.46	2.06	1.65	0.00	0.58	0.00	0.00	92.50	7.12	0.22	0.00	0.16	0.00	0.00	40.67	0.657	357.9	4527.5
Bp-imperial-sombra 15-15	15	15	Guelph	660.5	66.05.27	88.41	4.40	2.08	0.88	0.55	0.21	0.09	0.07	96.69	3.07	0.13	0.00	0.11	0.00	0.00	41.16	0.637	363.0	4585.6
Brett Baslen Sombra 4-24-VII	24	VII	Guelph	582.2	69.07.08	84.95	5.08	2.38	0.68	0.58	0.18	0.09	0.00	93.94	5.70	0.06	0.00	0.19	0.00	0.02	40.84	0.648	360.3	4546.2
Imp. Becher No. 73	15	6	Guelph	583.1	54.09.15	83.43	3.44	1.73	1.07	0.00	0.41	0.00	0.00	90.08	9.56	0.21	0.00	0.15	0.00	0.00	39.49	0.652	350.9	4506.5
Imp. Sombra 1-14-XIII	14	XIII	Guelph	559.3	71.11.16	76.51	8.56	5.61	2.64	1.94	0.79	0.37	0.38	96.80	3.02	0.08	0.00	0.10	0.00	0.00	48.37	0.761	401.7	4536.4
Imp. Sombra 1-14-XIII	14	XIII	Guelph	570.6	68.08.07	85.58	5.85	2.67	0.87	0.61	0.23	0.07	0.10	95.98	3.88	0.00	0.00	0.13	0.00	0.01	41.91	0.653	367.0	4571.0
Imp. Sombra 14-14 Wilkesport 1	14	14	Guelph	603.5	67.01.18	87.19	4.66	2.24	0.99	0.68	0.25	0.12	0.11	96.24	3.65	0.00	0.00	0.13	0.00	0.00	41.62	0.647	364.6	4571.1
Imp. Sombra 14-XIV	14	XIV	Guelph	603.5	67.07.28	86.34	4.62	2.31	0.91	0.56	0.23	0.10	0.07	95.14	4.15	0.57	0.00	0.14	0.00	0.00	41.09	0.650	364.0	4581.7
Imperial Sombra 14-14	14	14	Guelph	632.5	65.07.02	85.90	5.00	2.20	0.90	0.60	0.20	0.10	0.10	95.00	4.50	0.10	0.00	0.16	0.00	0.00	41.20	0.647	362.4	4553.5
Imperial Sombra 15-15	15	15	Guelph	660.5	66.02.23	88.34	4.26	2.07	0.89	0.59	0.21	0.09	0.09	96.54	0.00	0.12	0.15	3.19	0.00	0.00	40.39	0.613	356.7	4493.2
Imperial Sombra 15-15	15	15	Guelph	660.5	65.08.06	87.71	4.48	2.22	0.97	0.63	0.24	0.11	0.11	96.47	3.12	0.29	0.00	0.17	0.00	0.00	41.44	0.645	365.0	4585.8
IOE B.P. et al Sombra No. 3	15	15	Guelph	660.5	66.02.23	87.64	4.86	2.18	0.84	0.58	0.21	0.10	0.13	96.54	3.29	0.04	0.00	0.11	0.00	0.02	41.43	0.642	364.1	4579.5
IOE Sombra 1-21-7	21	7	Guelph	568.5	68.12.04	85.28	4.76	2.22	0.83	0.58	0.22	0.10	0.09	94.08	5.72	0.05	0.00	0.14	0.00	0.01	41.03	0.651	360.9	4548.7
Ram 2	23	IX	Guelph	489.8	68.04.02	85.31	4.46	1.95	0.63	0.40	0.12	0.05	0.02	92.94	6.59	0.28	0.00	0.19	0.00	0.00	39.99	0.642	356.1	4549.1
Ram 3	23	IX	Guelph	502.9	68.05.22	84.59	5.16	2.15	0.63	0.57	0.17	0.07	0.05	93.39	6.43	0.00	0.00	0.18	0.00	0.00	40.69	0.649	359.1	4542.0
Ram 4	23	IX	Guelph	551.7	68.10.08	84.46	4.78	2.18	0.79	0.56	0.20	0.09	0.08	93.14	6.02	0.64	0.00	0.18	0.00	0.02	40.63	0.656	361.1	4560.3
Sombra 2-23-XII	23	XII	Guelph	619.0	78.07.09	82.40	8.24	3.24	1.16	0.79	0.26	0.09	0.00	96.18	3.58	0.00	0.00	0.23	0.00	0.01	43.22	0.674	375.3	4570.5
Trup Mccreary No. 1	20	6	Guelph	586.4	. .	81.91	3.33	2.24	1.16	0.00	0.52	0.00	0.00	89.16	10.43	0.41	0.00	0.00	0.00	0.00	39.80	0.666	353.1	4503.2
Union Sombra 15-XI	15	XI	Guelph	590.7	71.11.16	84.70	5.05	2.20	0.95	0.66	0.21	0.10	0.07	93.94	5.88	0.01	0.00	0.17	0.00	0.00	41.21	0.654	361.8	4543.9
Township Warwick																								
Bluewater True Warwick 6-17-IV	17	IV Ser	Guelph	647.1	79.03.13	82.18	2.39	0.58	0.13	0.36	0.11	0.12	0.10	85.97	13.74	0.00	0.00	0.25	0.00	0.03	37.46	0.641	336.8	4451.7
COUNTY MIDDLESEX																								
Township Ekfrid																								
Camac Ais Arjan Ekfrid 7-6-IV	6	IV RS	Cambrian	1086.6	75.03.26	89.93	4.89	1.79	0.24	0.56	0.10	0.12	0.06	97.69	2.20	0.00	0.00	0.09	0.00	0.02	40.67	0.621	360.9	4602.9

GAS ANALYSIS SUMMARY

Wellname	Lot	Conc	Formation	Depth	Date	C1	C2	C3	I_C4	N_C4	I_C5	N_C5	C6+	Total	N_2	CO_2	H_2O	He	O_2	H_2	Gross Heat MJ/m^3	Relat. Dens.	Crit. Temp. Deg R	Crit. Press. kPa ABS
Township Mosa																								
Goemaer No. 1	15	I	A1 Carbonate	450.8	54.09.20	82.31	3.96	2.08	0.81	0.00	0.40	0.00	0.00	89.56	10.12	0.11	0.00	0.21	0.00	0.00	39.54	0.655	351.0	4496.7
Township Mosa S. 1/2																								
Anchor Ashley Fisher No. 3	16	II	A1 Carbonate	452.0	54.09.20	82.22	3.84	2.11	0.73	0.00	0.36	0.00	0.00	89.26	10.33	0.20	0.00	0.21	0.00	0.00	39.35	0.654	350.3	4497.5
Fisher No. 1	16	II N.	A1 Carbonate	456.6	54.09.20	84.10	3.90	2.13	0.94	0.00	0.34	0.00	0.00	91.41	8.23	0.16	0.00	0.20	0.00	0.00	39.83	0.648	353.6	4521.3
COUNTY NORFOLK																								
Township Charlotteville																								
New Metalore 305625	7	V	Thor/Grim	0.0	77.03.28	79.81	7.79	3.37	0.28	0.57	0.09	0.09	0.00	92.00	7.99	0.00	0.00	0.00	0.00	0.00	41.54	0.673	365.3	4536.8
New Metalore Stn 25	9	II	Thor/Grim	0.0	77.03.28	81.44	6.95	2.58	0.23	0.48	0.08	0.07	0.00	91.83	8.17	0.00	0.00	0.00	0.00	0.00	40.69	0.660	360.1	4537.6
New Metalre 324139	8	VII	Thor/Grim	0.0	77.03.28	79.46	7.66	3.36	0.28	0.62	0.10	0.11	0.00	91.59	8.41	0.00	0.00	0.00	0.00	0.00	41.52	0.675	364.9	4530.9
Roberts No. 29	9	VII	Thorold	361.5	67.06.09	83.00	5.90	1.70	0.10	0.40	0.20	0.10	0.10	91.50	8.10	0.10	0.00	0.36	0.00	0.00	39.89	0.648	354.8	4527.4
Smith And Degroote No. 1	18	VI	Thorold	359.1	54.09.22	80.38	4.82	2.11	0.68	0.00	0.23	0.00	0.00	88.22	11.36	0.10	0.00	0.32	0.00	0.00	39.30	0.659	349.7	4481.6
Township Houghton																								
Shawnee Plains	6	I ENR	Thorold	442.0	72.04.04	81.40	7.22	2.55	0.21	0.42	0.06	0.06	0.03	91.95	7.76	0.01	0.00	0.28	0.00	0.00	40.64	0.657	359.8	4532.1
Township Middleton																								
Gregor No. 1 (Nycan Gas Co.)	36	II N.	Guelph	225.6	57.03.27	84.65	3.89	1.40	0.39	0.00	0.23	0.00	0.00	90.56	8.75	0.42	0.00	0.27	0.00	0.00	38.64	0.636	348.2	4528.5
E. And J. Planke No. 2	39	II STR	Thorold	342.6	54.09.22	82.05	2.77	1.48	0.47	0.00	0.27	0.00	0.00	87.04	12.48	0.00	0.00	0.49	0.00	0.00	38.06	0.643	340.7	4456.9
Township N. Walsingham																								
R. Jamieson No. 4	18	XII	Thorold	374.3	54.09.22	85.07	2.29	1.08	0.34	0.00	0.27	0.00	0.00	89.05	10.29	0.32	0.00	0.34	0.00	0.00	37.82	0.630	341.6	4500.8
Township Townsend																								
Subeo S. S. No. 1	5	II	Thor/Grim	245.4	67.06.12	85.53	4.96	2.01	0.27	0.40	0.07	0.07	0.04	93.35	6.34	0.00	0.00	0.31	0.00	0.00	39.95	0.636	355.2	4543.9
Township Windham																								
C. Kellam No. 1	6	XIII	Thorold	309.4	54.09.22	83.65	4.19	2.54	0.55	0.00	0.34	0.00	0.00	91.27	8.41	0.05	0.00	0.27	0.00	0.00	39.81	0.647	353.3	4515.9
COUNTY NORTHUMBERLAND																								
Township Murray																								
K. Halsey Well No. 1	6	I	Trenton	0.0	56.08.08	89.43	3.32	0.00	0.00	0.00	0.00	0.00	0.00	92.75	6.08	1.17	0.00	0.00	0.00	0.00	37.30	0.606	345.4	4605.1
COUNTY OXFORD																								
Township Blandford																								
Brady-ark Blandford 2	5	VII	Cambrian	0.0	73.07.25	87.17	5.34	1.74	0.21	0.42	0.07	0.08	0.05	95.08	4.61	0.00	0.00	0.31	0.00	0.00	40.13	0.628	357.1	4567.6
Nith River Innerkip No. 1A	3	VI	Cambrian	885.4	68.04.30	87.13	5.80	2.14	0.24	0.46	0.06	0.06	0.02	95.91	3.80	0.00	0.00	0.29	0.00	0.00	40.59	0.630	360.3	4578.4
Township Blenheim																								
Deloover No. 1	18	II	Cambrian	880.9	60.02.18	87.38	5.06	2.42	0.00	0.00	0.00	0.00	0.00	94.86	4.37	2.20	0.00	0.21	0.00	0.00	39.53	0.649	365.8	4716.4
Hanover Et Al Blenheim 1-24-5	24	V	Cambrian	875.4	68.10.02	87.46	5.43	2.12	0.24	0.44	0.07	0.07	0.04	95.87	4.11	0.00	0.00	0.00	0.00	0.00	40.56	0.631	360.1	4585.2
Paris Petroleum No.2	18	I	Cambrian	874.2	67.08.09	81.90	6.70	3.10	0.40	0.80	0.10	0.20	0.20	93.40	6.20	0.10	0.00	0.21	0.00	0.10	41.89	0.670	366.7	4540.7
Township Dereham																								
Subeo C. H. No. 1	21	V	Guelph	271.3	67.02.02	75.32	3.12	0.01	0.05	0.00	0.01	0.00	0.01	78.52	20.40	0.00	0.00	1.08	0.00	0.00	35.40	0.650	322.7	4345.5
Subeo C. H. No.1	21	V	Guelph	270.1	67.06.09	73.30	3.20	0.10	0.00	0.00	0.00	0.00	0.00	76.60	21.60	0.60	0.00	1.26	0.10	0.00	34.98	0.662	322.5	4347.5
Subeo Ltd. No.AA1,AA2, IMP. DER	23	V	GUELPH	270.7	69.02.21	77.17	3.75	0.12	0.17	0.03	0.04	0.00	0.01	81.29	17.81	0.15	0.00	0.73	0.00	0.02	36.22	0.649	329.5	4396.0
Subeo No.AA1&2, IMP. DER. 23-5	23	V	GUELPH	274.3	69.04.11	77.74	3.68	0.04	0.13	0.01	0.02	0.01	0.02	81.65	17.57	0.13	0.58	0.00	0.00	0.07	36.19	0.652	333.3	4455.0
COUNTY WELLAND																								
Township Bertie																								
David Marr No. 4	2	XII NR	Grimsby	207.3	54.09.23	86.06	5.55	1.75	0.56	0.00	0.32	0.00	0.00	94.24	5.48	0.07	0.00	0.21	0.00	0.00	40.15	0.635	357.1	4562.2

GAS ANALYSIS SUMMARY

Wellname	Lot	Conc	Formation	Depth	Date	C1	C2	C3	I_C4	N_C4	I_C5	N_C5	C6+	Total	N_2	CO_2	H_2O	He	O_2	H_2	Gross Heat MJ/m^3	Relat. Dens.	Crit. Temp. Deg R	Crit. Press. kPa ABS
Township City Of Welland																								
Valencourt No. 2			Thorold	152.4	64.08.01	90.82	6.47	1.86	0.29	0.38	0.12	0.06	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	41.26	0.616	366.2	4641.0
Township Humberstone																								
Frank Weaver No. 2	19	I	Grim/Whirl	231.0	54.09.23	78.15	7.06	3.70	1.36	0.00	0.99	0.00	0.00	91.26	8.28	0.16	0.00	0.30	0.00	0.00	42.64	0.697	369.6	4505.2
Township Pelham																								
J. Frolick No. 1	13	XI	Whirlpool	160.9	54.09.23	81.05	5.47	2.53	0.51	0.00	0.42	0.00	0.00	89.98	9.48	0.11	0.00	0.43	0.00	0.00	40.00	0.659	354.5	4499.7
Township Willoughby																								
R. J. Bynon No. 1	15	VII	Whirlpool	146.9	54.09.23	86.68	2.14	1.07	0.34	0.00	0.20	0.00	0.00	90.43	9.14	0.10	0.00	0.33	0.00	0.00	37.93	0.621	341.9	4510.1
COUNTY WELLINGTON																								
Township Arthur																								
Kenartha No. 2	24	VI	Shadow Lake	720.9	68.04.03	84.61	5.42	1.64	0.17	0.25	0.03	0.03	0.01	92.16	7.08	0.00	0.00	0.76	0.00	0.00	39.26	0.630	351.0	4521.1

OIL ANALYSIS SUMMARY

Well Name	Lot	Conc	Formation	Depth (m)	Date	Sample From	Density (Kg/m^3)	% Sulfur	Viscosity (Cst)	Pour Pt (°C)	Color	Carbon Res
COUNTY BRANT												
Township Burford												
ALTAIR	20	V	CAMBRIAN	894.3	66.09.09	WELL HEAD	829	0.15	0.000	15.6	BROWN BLACK	0.90
Township Onondaga												
(COMPOSITE) THOMPSON 1&2	16	I	WHIRLPOOL	0.0	39.09.28	TANK	866	0.70	0.000	-1.1	LIGHT GREEN	1.20
HARTLEY 1	16	III	WHIRLPOOL	174.3	35.10.04	WELL HEAD	869	0.43	0.000	-3.9	DARK GREEN	1.50
HARTLEY 2,3,&4	16	III	WHIRLPOOL	171.9	38.09.13	TANK	867	0.50	0.000	-1.1	DARK GREEN	1.40
ONONDAGA 1	18	III	WHIRLPOOL	0.0	28.04.01		859	0.46	0.000	-6.7	DARK GREEN	1.20
R. MCMASTER & SONS CAMBRIAN 1	7	III	CAMBRIAN	794.0	63.05.10	WELL BOTTOM	843	0.17	0.000	4.4	BROWN BLACK	1.10
COUNTY ELGIN												
Township Aldborough												
Consumers Et Al 33830	17	XIII	DUNDEE	108.4	85.04.26	BOTTOMHOLE FLOW	829	0.01	4.152	-27.0		0.00
Consumers Onexco 33836	16	XII	DUNDEE	106.0	84.06.07	HOLDING TANK	829	0.00	4.132	-30.0		0.00
Downey 1&4	4	VI WD	COLUMBUS	126.8	54.09.17	TANK	838	0.84	0.000	-40.0	BROWN BLACK	1.20
J. Mccall #2 Aldb. (1-1-D-7)	D	VII	COLUMBUS	132.0	84.06.01	WELLHEAD	835	0.80	5.830	-40.0	DARK BROWN	1.34
MacMILLAN 2	5	V WD	COLUMBUS	112.8	54.09.17	B4 SEPARATOR	835	0.83	0.000	-53.9	BROWN BLACK	1.40
NO. 8	5	V WD	COLUMBUS	113.4	54.09.17	B4 SEPARATOR	835	0.87	0.000	-53.9	BROWN BLACK	1.30
Township Dunwich												
PEACE RIVER 3	24	V	DUNDEE	100.6	27.12.01		897	1.54	0.000	-17.8	BROWN GREEN	2.30
LIDSTER 1	14	XI	COLUMBUS	93.0	27.12.01		837	0.90	0.000	-17.8	BROWN GREEN	1.20
BLUEWATER	16	I	CAMBRIAN	1097.6	64.01.08	TANK BOTTOM	827	0.19	0.000	-9.4	BROWN BLACK	0.90
IMP. ENTER. BLUEWATER	22	II	CAMBRIAN	1098.8	65.03.22	WELL HEAD	833	0.18	0.000	1.7	BROWN	1.00
COUNTY ESSEX												
Township Colchester S.												
IMP. COLCHESTER 1	76	I	TRENTON	654.7	60.02.16	WELL HEAD	816	0.18	0.000	-9.4	GREEN BLACK	1.00
Township Gosfield South												
GEL 5 MELEG 2	4	FWD	TRENTON	731.5	78.10.09	FLOW LINE	824	0.18	0.000	-1.1	BROWN BLACK	0.94
GEL FOX 1	4	WFD	TRENTON	732.7	77.03.10	FLOW LINE	816	0.25	0.000	-1.1	GREEN BLACK	0.89
PUTMAN CANADIAN 1	6	FRONT	TRENTON	733.3	62.03.20	WELL HEAD	810	0.14	3.460	-9.4	BROWN GREEN	0.79
CONSUMERS ET AL 34210	7	V	VERULAM	0.0	87.02.23	DRILL STEM TEST	823	0.18	4.120	9.0	DARK BROWN	0.00
Township Malden												
COLONIAL	42	IV	TRENTON	707.0	82.08.10	BAILER	843	0.16	7.250	-20.5	DARK BROWN	2.09
IMP. FEL. CWP 1	63	VI	TRENTON	677.0	62.03.20	B4 SEPARATOR	811	0.15	0.000	-42.8	BROWN BLACK	0.87
P.H. & H.	41	IV	VERULAM	733.7	77.03.20	FLOW LINE	859	0.34	0.000	-9.4	BLACK	2.38
Township Mersea												
CONSUMERS ET AL 33683	15	B	TRENTON	774.0	83.11.04	WELL	824	1.00	4.080	-17.7	DARK BROWN	0.97
CONSUMERS ET AL 33775	12	I	TRENTON	765.5	85.05.12	STOCK TANK	817	0.00	2.951	-30.0		0.00
CONSUMERS ET AL 33817	13	A	TRENTON	0.0	85.04.02	SEPARATOR	802	0.00	0.000	0.0		0.00
CONSUMERS ET AL 33818	12	I	TRENTON	811.0	84.12.18	SEPARATOR SIGHT	824	0.00	0.000	0.0		0.00
CONSUMERS ET AL 33818	12	I	TRENTON	811.0	85.01.09	SEPARATOR	770	0.00	0.000	0.0		0.00
CONSUMERS ET AL 33818	12	I	TRENTON	811.0	85.01.04	TANK	823	0.00	0.000	0.0		0.00
CONSUMERS ET AL 33818	12	I	TRENTON	811.0	84.12.18	SEPARATOR SIGHT	818	0.00	0.000	0.0		0.00
CONSUMERS ET AL 33818	12	I	TRENTON	0.0	85.01.08	FLOWLINE	0	0.00	0.000	0.0		0.00
CONSUMERS ET AL 33818	12	I	TRENTON	0.0	84.12.19	SEPARATOR	808	0.00	0.000	0.0		0.00
CONSUMERS ET AL 33818	12	I	TRENTON	811.0	85.01.07	TANK	0	0.00	0.000	9.0		0.00
CONSUMERS ET AL 33818	12	I	TRENTON	811.0	85.01.07	TANK	815	0.00	0.000	0.0		0.00
CONSUMERS ET AL 33818	12	I	TRENTON	811.0	84.12.17	SEPARATOR SIGHT	832	0.01	3.760	0.0	DARK BROWN	0.00
CONSUMERS ET AL 33818	12	I	TRENTON	783.0	84.08.23	FLOW TANK	820	0.00	3.089	-15.0		0.00
CONSUMERS ET AL 33818	12	I	TRENTON	811.0	84.12.19	SEPARATOR SIGHT	822	0.01	2.810	3.0	DARK BROWN	0.00
CONSUMERS ET AL 33818	12	I	TRENTON	811.0	85.01.17	TANK	0	0.00	0.000	9.0		0.00
CONSUMERS ET AL 33821	12	I	TRENTON	0.0	85.07.15	SEPARATOR LIQU.	801	0.00	0.000	0.0		0.00

OIL ANALYSIS SUMMARY

Well Name	Lot	Conc	Formation	Depth (m)	Date	Sample From	Density (Kg/m³)	% Sulfur	Viscosity (Cst)	Pour Pt (°C)	Color	Carbon Res
Township Mersea (cont.)												
CONSUMERS ET AL 33821	12	I	TRENTON	778.5	85.06.12	FLOWBACK LINE	844	0.00	2.812	-9.0		0.00
CONSUMERS ET AL 33821	12	I	TRENTON	814.0	85.06.03	PRODUCTION TANK	884	0.00	3.154	-6.0		0.00
CONSUMERS ET AL 33821	12	I	TRENTON	777.5	85.02.20	DST TOOL	815	0.00	2.949	0.0		0.00
CONSUMERS ET AL 33821	12	I	TRENTON	0.0	85.07.15	STOCK TANK	815	0.00	2.687	-24.0		0.00
CONSUMERS ET AL 33822	11	I	TRENTON	768.0	85.07.18	FLOWLINE	815	0.00	2.763	-21.0		0.00
CONSUMERS ET AL 33823	12	A	TRENTON	802.0	85.09.13	WELLHEAD (SWAB)	882	0.00	1.495	-57.0		0.00
CONSUMERS ET AL 33823	12	A	TRENTON	779.5	85.09.17	FLOWBACK	832	0.00	2.468	-39.0		0.00
CONSUMERS ET AL 33826	13	I	TRENTON	782.3	85.09.16	WELLHEAD	892	0.00	1.782	-24.0		0.00
CONSUMERS ET AL 33826	13	I	TRENTON	782.3	85.09.23	FLOWBACK LINE	863	0.00	2.035	0.0		0.00
CONSUMERS ET AL 34100	10	I	TRENTON	771.0	85.10.31	TOP OF RECOVERY	822	0.00	6.170	6.0		0.00
CONSUMERS ET AL 34102	11	I	TRENTON	0.0	86.02.27	SEPARATOR	816	0.00	2.493	-30.0		0.00
CONSUMERS ET AL 34102	11	I	TRENTON	767.0	85.11.21	BOTTOM OF HOLE	815	0.00	2.901	-25.0		0.00
CONSUMERS ET AL 34102	11	I	TRENTON	796.0	85.11.20	BOTTOM OF RECOV	834	0.00	4.293	-9.0		0.00
CONSUMERS ET AL 34102	11	I	TRENTON	821.0	86.02.02	FLOW BACK SWAB	850	0.00	2.455	6.0		0.00
CONSUMERS ET AL 34102	11	I	TRENTON	820.0	85.11.20	TOP OF RECOVERY	820	0.00	3.353	15.0		0.00
CONSUMERS ET AL 34102	11	I	TRENTON	767.0	85.11.21	TOP OF RECOVERY	816	0.00	2.793	-30.0		0.00
CONSUMERS ET AL 33775	12	I	COBOURG	0.0	85.04.09	SEPARATOR LIQU.	807	0.00	0.000	0.0		0.00
CONSUMERS ET AL 33775	12	I	COBOURG	768.0	84.07.19	FLOW TEST	818	0.00	2.990	-3.0		0.00
CONSUMERS ET AL 33817	13	A	COBOURG	861.0	85.03.15	FLOW TANK	838	0.00	4.780	9.0		0.00
CONSUMERS ET AL 33818	12	I	VERULAM	789.0	85.01.18	SEPARATOR	817	0.01	2.800	0.0	BROWN	0.00
CONSUMERS ET AL 33818	12	I	VERULAM	789.0	85.01.18	SEPARATOR	0	778.00	0.000	0.0		0.00
CONSUMERS ET AL 33818	12	I	VERULAM	789.0	85.01.18	SEPARATOR	818	0.00	0.000	0.0		0.00
CONSUMERS ET AL 33821	12	I	VERULAM	840.0	85.05.23	FLOW BACK TANK	849	0.01	3.404	-15.0		0.00
Township Rochester												
BRETT	16	V	GUELPH	378.6	71.04.05	BAILER	845	1.18	0.000	4.4	BROWN BLACK	1.91
COUNTY HALDIMAND												
Township Lake Erie												
PEMBINA #2	65	K	WHIRLPOOL	395.0	84.10.18		845	0.42	8.050	-6.7	DARK BROWN	1.25
Township Moulton												
MOULTON	15	II BF	WHIRLPOOL	198.1	41.11.28	WELL HEAD	848	0.26	0.000	-1.1	DARK GREEN	0.90
COUNTY HALTON												
Township Esquesing												
ANTHONY 21	15	IV	GULL RIVER	587.3	58.05.12	TANK	845	0.20	0.000	12.8	GREEN BROWN	0.70
Township Trafalgar												
ANTHONY GAS & OIL #35	2	VIII	GULL RIVER	475.8	64.08.05		840	0.10	0.000	7.2		0.00
COUNTY HURON												
Township Goderich												
MOFFAT LAKE GODERICH	37	IX	GOAT ISLAND	613.3	85.01.01	WELLHEAD	849	0.39	8.360	10.0	DARK BROWN	1.64
COUNTY KENT												
Township Camden Gore												
AJAX 1	5	XIII	DUNDEE	67.1	28.01.01		838	0.93	0.000	-17.8	GREEN BLACK	1.10
Township Dover												
(COMPOSITE) DOVER		E	TRENTON	914.4	27.10.01		836	0.13	0.000	-12.2	DARK GREEN	1.10
DUPHRETTE 1	3	IV E	TRENTON	0.0	36.09.02	WELL HEAD	825	0.15	0.000	-17.8	DARK GREEN	1.20
PETROL OIL & GAS	1	II W	TRENTON	999.7	27.10.01		826	0.16	0.000	-1.1	DARK GREEN	1.00
PRAIRIE 3	2	III E	TRENTON	999.7	36.09.02	WELL HEAD	830	0.15	0.000	-17.8	DARK GREEN	0.90
PRAIRIE GAS & OIL 3	2	III E	BLACK RIVER	1000.0	82.12.01	TANK	833	0.12	4.490	0.0	DARK BROWN	1.16
ROWE/RAM 1	5	V	BLACK RIVER	1020.0	83.02.03	WELL HEAD	824	0.12	3.830	1.7	DARK BROWN	1.02

OIL ANALYSIS SUMMARY

Well Name	Lot	Conc	Formation	Depth (m)	Date	Sample From	Density (Kg/m³)	% Sulfur	Viscosity (Cst)	Pour Pt (°C)	Color	Carbon Res
Township Orford												
CLEARVILLE 6	57	STR	TRENTON	1058.3	63.06.10	WELL HEAD	853	0.04	0.000	-12.2	BROWN BLACK	2.60
C.D. WHORTON N. McCOLL 1	55	STR	CAMBRIAN	1206.4	62.02.16	TANK (WELLHEAD)	831	0.31	0.000	1.7	BROWN BLACK	0.80
McCOLL	55	STR	CAMBRIAN	0.0	63.02.28		832	0.14	0.000	0.0		0.00
Township Raleigh												
BUXTON ET AL	3	IX	GUELPH	448.1	71.05.28	WELL HEAD	818	0.48	0.000	-12.2	BROWN BLACK	0.69
BRUETTE 1	4	V	TRENTON	981.5	36.09.02	WELL HEAD	823	0.15	0.000	-17.8	DARK GREEN	0.80
BRUETTE 5	4	RFC	TRENTON	0.0	39.09.21	WELL HEAD	827	0.34	0.000	-37.2	DARK GREEN	0.80
PALOMINO BUXTON 2	5	X	CAMBRIAN	1133.2	70.10.21	BAILER	835	0.11	0.000	4.4	BROWN BLACK	1.04
WATER WELL	17	XI	WATER WELL	0.0	74.11.25		852	0.98	8.610	-42.8	BLACK	2.05
Township Romney												
CONSUMERS ET AL 34010	17	III	BLACK RIVER	927.0	86.05.03	WELLHEAD	0	1.44	2.079	-18.0		0.00
CONSUMERS ET AL 34010	17	III	BLACK RIVER	927.0	86.05.03	WELLHEAD	897	1.03	2.254	-18.0		0.00
CONSUMERS ET AL 34011	8	II	BLACK RIVER	817.5	86.01.23	FLOWLINE	818	0.00	2.863	-27.0		0.00
Township Tilbury East												
(COMPOSITE) TILBURY E.			GUELPH	0.0	27.10.01		844	0.49	0.000	-1.1	BROWN GREEN	1.10
CONSUMERS ET AL 33534	2	IX	GUELPH	421.0	82.10.19	BAILER	816	0.81	0.000	4.4	DARK BROWN	0.85
REID FARM 1	11	NBL	GUELPH	437.4	37.09.02	WELL HEAD	822	0.45	0.000	-23.3	DARK GREEN	0.80
WALKER & DRAKE 1	6	IX	GUELPH	437.1	36.09.03	WELL HEAD	819	0.50	0.000	-17.8	DARK GREEN	0.70
Township Zone												
(COMPOSITE) BOTHWELL			DUNDEE/COLUM	99.1	27.10.01	TANK	844	0.96	0.000	-17.8	GREEN BLACK	1.20
(COMPOSITE) BOTHWELL			DUNDEE/COLUM	99.1	27.10.01		838	0.91	0.000	-17.8	GREEN BLACK	1.20
(COMPOSITE) THAMESVILLE	4	III	DUNDEE	0.0	27.10.01		831	0.86	0.000	-17.8	DARK GREEN	1.00
(COMPOSITE) THAMESVILLE	4	III	DUNDEE	0.0	27.10.01	TANK	833	1.02	0.000	-17.8	DARK GREEN	1.10
BARCLAY	4	III	DUNDEE	84.7	28.01.01		823	0.86	0.000	-17.8	DARK GREEN	0.90
COLCHESTER "DEEP WELL"	5	III	CAMBRIAN	1199.4	28.05.01		827	0.22	0.000	-6.7	BROWN GREEN	1.00
COUNTY LAMBTON												
Township Brooke												
BLUEWATER TRUE	9	X	GUELPH	605.9	79.01.01	WELL HEAD	906	1.37	33.310	-34.4	BROWN BLACK	7.63
CAPES 2	1	XIV	GUELPH	606.6	58.09.04	TANK	888	1.15	0.000	-45.6	BROWN BLACK	5.00
SYD EARL	5	XI	GUELPH	512.1	68.08.22	WELLHEAD	885	1.06	0.000	-17.8	BROWN BLACK	5.90
SYDEY EARL	10	XIII	GUELPH	609.6	64.03.24	FLOW LINE	911	1.29	0.000	-34.4	BLACK	7.50
Township Dawn												
UNION DAWN 237	27	III	A1 CARBONATE	558.4	67.04.11	WELL HEAD	812	0.72	0.000	-45.6	BROWN BLACK	1.70
UNION 68	25	II	GUELPH	586.7	36.09.01	WELL HEAD	826	0.62	0.000	-17.8	DARK GREEN	1.50
UNION DAWN 236	27	III	GUELPH	593.1	66.08.05	WELL HEAD	821	0.66	0.000	-45.6	BROWN BLACK	1.80
Township Enniskillen												
OIL SEEPAGE			DRIFT	0.0	24.01.01		842	0.77	0.000	-17.8	BROWN GREEN	1.80
BENNETT	15	XII	DUNDEE	0.0	36.09.01	WELL HEAD	867	1.03	0.000	-17.8	BROWN GREEN	2.10
CAPITAL ENNISKILLEN 2	23	VIII	DUNDEE	0.0	68.07.12		871	1.53	0.000	-20.5	DARK BROWN	2.69
FAIRBANK 157	18	II	DUNDEE	118.9	27.10.01	WELL HEAD	845	0.71	0.000	-17.8	BROWN GREEN	1.80
HILLIS	16	II	DUNDEE	85.3	28.12.01		845	0.79	0.000	-17.8	BROWN GREEN	1.70
KELLY 2	11	XI	DUNDEE	141.7	27.10.01	WELL HEAD	855	0.82	0.000	-15.0	BROWN GREEN	2.10
PERKINS	11	XII	DUNDEE	0.0	36.09.01	WELL HEAD	855	0.75	0.000	-17.8	BROWN GREEN	2.10
RAM 61	15	VI	A1/GUELPH	550.8	78.01.30	TANK	889	1.33	17.520	1.7	BROWN BLACK	4.24
BLUEWATER 2	30	IX	GUELPH	601.4	79.01.01		884	1.13	0.000	-34.4	BLACK	5.25
BLUEWATER 7	30	X	GUELPH	647.1	. .		932	1.56	0.000	-20.6	BLACK	11.50
Township Moore												
DAVIS	3	X	DUNDEE	0.0	36.08.31	WELL HEAD	868	1.36	0.000	-12.2	BROWN GREEN	2.30
BRIGDEN 1	10	IV	A1 CARBONATE	642.5	64.02.28	WELL HEAD	828	0.70	0.000	-40.0	BROWN BLACK	2.00
DOW 7-6-III A	6	III	GUELPH	643.0	80.11.13	WELL HEAD	827	0.96	0.000	1.7	BROWN BLACK	2.20
Township Plympton												
BLUEWATER TRUE FITZGERALD	19	VI	GUELPH	742.0	79.01.01	WELL HEAD	879	0.90	12.230	-26.1	BROWN BLACK	5.08

OIL ANALYSIS SUMMARY

Well Name	Lot	Conc	Formation	Depth (m)	Date	Sample From	Density (Kg/m^3)	% Sulfur	Viscosity (Cst)	Pour Pt (°C)	Color	Carbon Res
Township Sombra												
BECHER 4	10	VI	A1 CARBONATE	575.0	49.09.12	WELL HEAD	850	0.92	0.000	-1.1	DARK GREEN	1.90
RAM 54	18	VII	GUELPH	609.9	77.06.24	WELL HEAD	828	0.64	3.620	16.0	BLACK	1.72
RAM 8	24	IX	GUELPH	603.5	70.02.26		815	0.70	2.900	-37.2	BROWN BLACK	1.27
Township Warwick												
DISCOVERY 1	23	V	DUNDEE	146.3	38.12.07	WELL HEAD	830	0.75	0.000	-37.2	DARK GREEN	1.00
S. BURCHELL FARM 1	27	V	DUNDEE	114.3	38.12.07	WELL HEAD	813	0.70	0.000	-37.2	DARK GREEN	0.90
BLUEWATER	17	IV SER	GUELPH	0.0	79.01.01		889	1.02	15.990	-34.4		4.95
COUNTY LINCOLN												
Township Gainsborough												
WELLANDPORT 7	14	I	WHIRLPOOL	0.0	. .		838	0.13	0.000	45.0		0.00
COUNTY MANITOULIN												
Township Assiginack												
BURGESS 2	44	II	TRENTON	0.0	57.12.01		863	0.28	0.000	-9.4	BROWN BLACK	2.10
J. MARSHALL FARM 3	44	I	TRENTON	138.1	38.12.21		847	0.24	0.000	-37.2	DARK GREEN	1.60
Township Sheguiandah												
GEORGE McIVAN 1	12	VI	TRENTON	157.6	42.02.26	WELL	869	0.30	0.000	-9.4	BROWN GREEN	2.20
COUNTY MIDDLESEX												
Township Ekfrid												
CAMAC A-I-S ARJAN	6	IV RS	CAMBRIAN	1087.2	75.03.26	WELL HEAD	829	0.13	4.460	-6.7	DARK BROWN	1.03
DONNAN PINETREE 1	10	V S	CAMBRIAN	1080.0	65.05.04	WELL HEAD	825	0.16	0.000	-28.8	BROWN	0.90
Township Mosa												
(COMPOSITE) MOSA			DUNDEE/COLUM	0.0	27.10.01		857	0.89	0.000	-17.8	BROWN GREEN	1.70
McLACHLAN #1	5	V	DUNDEE	0.0	34.02.03		866	0.45	0.000	0.0		0.00
WALKER 17	6	VI	DUNDEE/COLUM	106.7	27.10.01	WELL HEAD	854	0.74	0.000	-17.8	BROWN GREEN	1.70
IMP. UNION	10	I RS	A1 CARBONATE	454.8	67.01.15	WELL HEAD	822	0.52	0.000	-45.6	BROWN BLACK	1.30
COUNTY NORFOLK												
Township Charlotteville												
NEW METALORE 18	10	VIII	LUCAS	80.8	66.10.19	WELL HEAD	858	1.02	0.000	-40.0	BROWN BLACK	2.00
Township Woodhouse												
COOKSON FARM	3	BF	WHIRLPOOL	353.6	51.11.23	WELL	834	0.05	0.000	-12.2	DARK GREEN	0.90
COUNTY OXFORD												
Township Blenheim												
MCMASTER 3	20	I	CAMBRIAN	882.4	60.11.22	WELL HEAD	827	0.20	0.000	-3.9	BROWN BLACK	1.05
COUNTY SIMCOE												
Township Nottawasaga												
RICHARD CURRIE FARM	33	XII	TRENTON	0.0	40.11.06	WELL	826	0.15	0.000	10.0	DARK GREEN	0.30
Township SE Of Collingwd												
OIL SEEPAGE			DRIFT	0.0	30.08.01		838	0.15	0.000	0.0	BROWN GREEN	1.10
COUNTY WENTWORTH												
Township Beverly												
O' KONTA OIL LTD. 1	30	IV	CAMBRIAN	0.0	. .		857	0.13	0.000	18.3		0.00